

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Joseph R. Byrum, *et al.*

Appl. No.: To Be Assigned

Filed: November 24, 1998

For: **Nucleic Acid Molecules And Other
Molecules Associated With Plants**

Art Unit: To Be Assigned

Examiner: To Be Assigned

Atty. Docket: 38-21(15075)B

Statement Regarding Sequence Submission

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

In accordance with 37 C.F.R. § 1.821(c), (e), and (f), the paper copy of the Sequence Listing and the computer readable copy of the Sequence Listing submitted herewith in the above-mentioned application are the same.

Respectfully submitted,

Date: Nov 24, 98

Lawrence M. Lavin, Jr.
Lawrence M. Lavin, Jr. (30,768)

Monsanto Company
700 Chesterfield Parkway North, BB4F
St. Louis, Missouri 63198

by
D. R. Marshall
Reg. No. 41,408

<223> Clone ID: 700547903H1

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 ataaatcact tataaccatg cgnangatag ttgaaatgcn tgacgttttg cgnatttgg 180
 gcnagtatat tgntagagaa aaatcacctt gggatccatg gaagtggagt aagggtgtggg 240
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<210> 42

<211> 267

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700547953H1

<400> 42

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 ttatgatcta aaacaagaat tagtgcttgg tatagtttga ttgggaaaaa attggatatc 180
 ttcatatata tgtgattgat ttttgaaaaa caggctatag tgaaatagaa attcaaatac 240
 attttgcaaa ttgtatcttg agttcga 267

<210> 43

<211> 91

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700547955H1

<400> 43

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<210> 44

<211> 251

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700547956H1

<400> 44

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cgatgcatgc ttggagcagg accctgacag caagggtgcc tgtgaaacct gcaccaagac 120
caacatggtg atggttttcg gagagatcac aaccaaggcc aacgtggact atgagaagat 180
tgtgcgtgac acatgcagga acattggttt tgtctctgat gatgttngtc ttgatgctga 240
caactgcaag t 251

<210> 45

<211> 268

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700547957H1

<400> 45

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ctcattccta aaccaagtta tccctgaaaa catcacgaa ttccaagtga ctctgtccct 180
cgctagagac tacgatggca acaactcaac caacggaaag ttcattcctt actgggacac 240
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<210> 46

<211> 267

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700547958H1

<400> 46

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agaggggtat gatgacatcc caaaagagct ccagacccc gaagccanga agcctgaaag 120
attnggatga tgaggaagat ngtgagtga caccctctac catgccaacc ctgagtacna 180
ggcccatnga atggcagaga aaatcaagaa ccccaatatn nnggaaaatg ganggcacca 240
ttgattgata anccagattt canggat 267

<210> 47
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 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700547959H1

 <400> 47

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 agtcatcata acatgagtga tgatgggtcg gtgatgcatt tctctgctac aaggctcagt 180
 gcagtgccat catctggaca gaataaagtg attcctagtc caactcagtt tagcatcctc 240
 tataagggga aaatgtg 257

<210> 48
 <211> 267
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700547960H1

 <400> 48

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 ctccatccaa cggttggtcg acgcgggtca ccgaacatgt ccaattacca aactaccctc 180
 ccccgaccac cccgcctca tccccaaaca cgcgctgcga agtttaatct ccaactacgc 240
 attcctctca cttctccaac aatacgt 267

<210> 49
 <211> 267
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700547961H1

 <400> 49

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gatagacggg acttcaactc ctatggaagt cgccgtggta atgatgaggt gatggcccga 180
ggaattttgc ccaatattcg cattgtcaac aaatttttgg aatggagaag ttggacctaa 240
aactattcat attccttctg gggngaa 267

<210> 50
<211> 269
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700547962H1

<400> 50

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tggctgctgc ggttagtgct gcagtctctt ttccatccac caagtctacc tctctcccaa 180
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gagatgtttg tagcagtgga agggtagtt 269

<210> 51
<211> 269
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700547963H1

<400> 51

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ggtgaaggga caaaccttc gccaaccttc tgcacagtt gtgagatgca accccaccac 180
cccatcaggc ctcaccatca gagctggttc ctatgctgat gagctcgtta agaccgcaa 240
aacagtggct tcaccaggga ggggtattt 269

<210> 52
<211> 270
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700547964H1

<400> 52
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 aatctccggt antaagacgg tatccgantt caccaagatt cgntccagt ttccttcagc 120
 ttggatccga agaggnacac gattctcgac gngtcctcg ganttacaga ggatgtgggt 180
 gccttcgcca gaagcgtagt ttgcatccag aaacttggct cgattttccc cttcccgatg 240
 atgaggattc tgatgatttt gattgtccga 270

<210> 53
 <211> 274
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700547965H1

<400> 53
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 tcagaggaga aanctgaaga agtgaaagaa gaagcagagg agcctaaaga nactactgan 180
 acagnatcag cagcagcagg caccaccagc aaccacagag ggaagagaac aaaccagctg 240
 agtcagttgg aaccccgatg gaggttcctg ttga 274

<210> 54
 <211> 269
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700547967H1

<400> 54
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 aagatttctt ctggaagttt caaaatcggt gccgcggaaa aagagattga tgagnaacaa 180
 cagacagnca agggcagatg gaaaggtctt gcctatgatg tttcagacga ncagcaagac 240
 atcacaagag ggaaggtttt gttgattcc 269

<210> 55
 <211> 269
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700547968H1

 <400> 55

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 atcatcaaca cattctacag caacaaggag attttcttgc gtgaactcat cagcaatgct 180
 tctgatgctt tggataagat tcgattcgag agcttaaccg acaagagcaa gctcgatgct 240
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<210> 56
 <211> 268
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700547969H1

 <400> 56

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 aaatccatgg ctggcttccc caccaggaag accaacaatg acattacctc cattgctagc 180
 aacggtggaa gagtacaatg catgcagggtg tggccaccaa ttggcaagaa gaagttcgag 240
 atctttccta cttgccagac ctcgatga 268

<210> 57
 <211> 66
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700547970H1

 <400> 57

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<210> 58
 <211> 266
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700547972H1

<400> 58

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 gctggagctt cagctcccag ttcagccttc tttgggacca gcttgaagaa ggttattgcc 180
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 aagaaagaga ttgaagagac ccagca 266

<210> 59
 <211> 268
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700547973H1

<400> 59

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 tgaatcagtg ancgaggggc accctgacaa gctctgtgan cagatctccg atgctgtgct 180
 cgatgcatgc ttggagcagg accctnacag caagggtgcc tgtgaaacct gcaccaagac 240
 caanatgggtg atngttttcg gagagatc 268

<210> 60
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 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700547975H1

<400> 60

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 ttgaatggag ttgcaatctc gacacccaaa aggaggactg agtcggtgat tgtctccgcc 180

gccgcggagg acgcgagttc ggctgtggag ggtgggtcgc cgccgcntcc tccggcggag 240
agcgaganag agagcggcgc ctccgt 266

<210> 61
<211> 263
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700547976H1

<400> 61

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gtaaaggcag ctgctactcc cnntgtcaag caaggatcag acagaccttt gtngtttgcn 180
caaagcaaag tctttcctan ttggatggcn gcnttcggg tgnctatnga nttgagcctc 240
nnggacattc ggaanctgaa nga 263

<210> 62
<211> 267
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700547977H1

<400> 62

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tgaagagcgc caaggaatgt attaagcaac gaaggaccaa ctctgaatta tatggaaaga 180
tgcaagaggt gattgtagaa atggatacag accctacggt taaagaattg gagaatttga 240
aggaggctgt aatgcaatct gatagca 267

<210> 63
<211> 265
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700547978H1

<400> 63

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 gacattcagg agttggagaa tgtattaaag gtgaaattgc ctcttcctac aaggatcctt 180
 tatcgcnttc acaatgggca agaatttgca aaggcagatc cagaaactag tacatttggc 240
 agatctttgg gtctaattgg tggct 265

<210> 64
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700547979H1
 <400> 64

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 accgtttcac acaaattctca ncancagctt atacctttct cctgggggtgt caaacagccg 180
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<210> 65
 <211> 268
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700547980H1
 <400> 65

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 tttgatcaat gggaagctcc gttatgctgt taacagtgtc tcnatatggt taaccctgac 180
 accctctcaa gcttgctgga ttacntcaac attcccggag tottcagtgt gaatttactc 240
 ccaaaatctc ctcaaacggt ctaggata 268

<210> 66
 <211> 266
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700547981H1

<400> 66

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 tctgttttgt ttaaccgaaa tggaggatcc gtacgttctc ggttggattc tgtgctccgt 180
 cctgagcctc ttggcgctct acancctggc cttcggcgga gcgggccgtc gccgcgcttc 240
 gcggagaaga agaagagtta tcggag 266

<210> 67

<211> 269

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700547983H1

<400> 67

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 aaatccatgg ctggcttccc caccgaggaag accaacaatg acattacctc cattgctagc 180
 aacggtggaa gagtacaatg catgcagggtg tggccaccaa ntggcaagaa gaagttcgag 240
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<210> 68

<211> 265

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700547984H1

<400> 68

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 atagaacatt ccatggctga agaaatgaaa atggtagaac ctggaagagg taagaggaag 120
 tttttcaaaa cgcaaggcca taaaaagtca agtaagaaag caaaagtgat gccaccacaa 180
 catggacaaa agaaagttaa aatagacaan aaaatgaaga aacttttccg caagcgagca 240
 cgggagtata attctgatga tggag 265

<210> 69
 <211> 266
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700547985H1

<400> 69

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 ttcagcttgt tcgacaagga cggcgatggt tgcatacaca ccaaggagct tggaactgtt 180
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<210> 70
 <211> 192
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700547986H1

<400> 70

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 tggaaccgca cggctcttct tgtgatcgat atgcagaaag attttataga agattggagt 180
 cctgtggcac ta 192

<210> 71
 <211> 192
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700547987H1

<400> 71

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 cttttctctc tgggtcgtgt tgctgaaacc ttttgacctt tccantaaag catttggttc 180

192

cncactcaa aaaggatttc nggacatcat gtgcagtgat tcgaaaagta aactttcttc 60

cccaaaccct tcgtcgatcat ggagaatagt aacattcaga agcngaactt ggatgggtctc 120
 tacaactcgg ttttgcntga antgtctgca tctgatgatt atgaagcttt ccaaagagng 180
 gtggaggaaa aaggcntaga tgtgaacgag gcaggctttt ggtacggtna aanaattggg 240
 tccaagaaga tgggtctgaa acgag 265

<210> 75
 <211> 262
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700547992H1
 <400> 75

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 gagttcttcg cgctccactc gttcacgcgc ccctacaccc tcggcgagac cacgctccgt 180
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<210> 76
 <211> 263
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700547993H1
 <400> 76

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 ccgattccat ccacgaagct tttctgaagg ccgccgcgc cgtcaaatca cgcgccgcct 180
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<210> 77
 <211> 263
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700547994H1

<400> 77

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 ctctgtcct taactggccg ggtcgtgcct ccggtgctgt tactttgaag aaattagagt 180
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<210> 78

<211> 280

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700548001H1

<400> 78

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<210> 79

<211> 276

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700548002H1

<400> 79

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 aacggcgctg tccaagaagc cctctccac cctcccttcg ccgtgggtact ttcccaaaat 180
 actctccttc aaaatcaatt ctcttagttt atntcttttc caattgtatt taatttgatt 240
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<210> 80
 <211> 275
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700548004H1

 <400> 80

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 ggaatcatgc cctcaggctg agacatcatc acagaacaag tcaagcttct ctacaagcgc 180
 cacaagaaca ctgctttctc ctggctcagg aacatcttcc atgactgtgc tgttcagagt 240
 tgggtgcttca ctgttgctgg actccacaag aagga 275

 <210> 81
 <211> 277
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700548005H1

 <400> 81

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 agatgaacaa gaccagagcc taaactatac ttttgcttcc agatatgtgc gtgaacctat 120
 tccaaagtgc aagatgccgg aaaatccata ccaaaagatg ctgcttatca gataataaac 180
 gatgagttga tgttgatgg tgcaccaagg ctcaacttgg cctcgtttgt gaccacttgg 240
 atnngcctga gtgtgacaag ctcataatgg cttcact 277

 <210> 82
 <211> 218
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700548006H1

 <400> 82

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 atccaccgcg catccatccc gcttccctct cctcgctttt ctcaaaaac aaaaaatta 120

aaaatttctc cgaagactgt gtattatcgt tatcgatcac tgagttaggt tttgctgttc 180
ntcctagggt ttattgtgtc caataacaag nggagggga 218

<210> 83
<211> 271
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700548007H1

<400> 83

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cattcagcgt ttattttgaa tgggataatg attttggaat tccaggagca ttttacctca 120
aaaattttat gcaatctgaa ttttcctcgt gagtgtcact cttgaagaca ttccaaatca 180
tggaaccatt cactttgttt gcaactcatg gggtttacaat gcaaaaagtt acaaaaagggg 240
tgattttcttg ctaataagac atatctccca a 271

<210> 84
<211> 274
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700548008H1

<400> 84

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gagggtttgtg acaatagaaa ggagattgtg cagattgaag gatcgattca atcaagttag 180
aggaacaatt tgttggcaga agcagaagga agcatttcat ctactgatgg gcgtgtcaaa 240
agtcaacaac ttcctctaag atgaaagatg aatc 274

<210> 85
<211> 275
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700548009H1

<400> 85

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 caggattcgt gctccctgct caacgagatc tactcatgcc gtcactgtca taacgacgct 180
 gcgagcttgt tgaagaatcc ctttgatcgc cagcagctcg ttcgccaaga tgttaaacia 240
 gtgtttgtnc agtttgtgac actgagcaac ctgtt 275

<210> 86
 <211> 255
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700548010H1
 <400> 86

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 gtttctcttc tgcttcgtat ctattctttg cttttggttt tggttgattc aaggccttca 180
 cagcattcgt tgcggcattt taatcgattt atccaagcag gatgaatgaa taatggagtc 240
 taaaggtggg aaaaa 255

<210> 87
 <211> 275
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700548011H1
 <400> 87

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 tccattcccc aacctcttcc tcacctctcc cactcgaaaa ttcctctgct ctgcctctaa 180
 ccctattcta cgctgctcca ttgcggagga atccaccgag tctccgcca aaaccagaga 240
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<210> 88
 <211> 275

<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700548012H1

<400> 88

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tcaagtcttc cagcagccaa cttgcatctg gtgatattga tgtgagaatg aatcttgatg 180
atccattaaa tcgaaacgtt gatactgcga gaaatgttct ataagaacta agaacacaaa 240
tccaccagaa atatttgatt tgtcaaggct tgtgt 275

<210> 89
<211> 165
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700548013H1

<400> 89

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tnctcaagcn acagcangca tctcggtgmn cttgcaantg cttggcatgc natattgact 120
ggcaccatgt tcantgtgat tacaagcncn ggactagtcc agcag 165

<210> 90
<211> 272
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700548014H1

<400> 90

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ttttcaatca ctccccacct tggaattcaa gggtttgagc aaggaggagg aagactcatt 180
gctagggcaa gtggaaatat ggaggtacat gacatgcttc acggactccg tggccttgaa 240
ctgtcataga gcttcgtata gcggacatac ta 272

<210> 91
 <211> 206
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700548015H1

 <400> 91

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<210> 92
 <211> 274
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700548016H1

 <400> 92

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 taaagctcag tgctgaaaaa nggctgcttt ggactctaag gnnttaagag anaaagatga 180
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 gcgtcattgt tgatttatcc caagaaagag atga 274

<210> 93
 <211> 275
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700548017H1

 <400> 93

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 cctcactttc tcgtcctttt cttctcagaa atatgccttc tcagaaagt gaaacgggtc 180
 atcaagacac ggtccatgat gttgcaatgg attactatgg taagaggctg gccacggctt 240

cacagatcac acaattaaga taattggggt gagta

275

<210> 94

<211> 272

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<213> Glycine max

<223> Clone ID: 700548018H1

<400> 94

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gaaaaaataa ggcaagggtg agtgattctc ttttgcttta aattttaata ctgttttaata 120

ttttttatatt gttgattcta ttttgctttt ggggtggtgct aaattttgtt tctttttggt 180

gttttagact tctagtgtgt agtgcagatg aagaattagg tgattaacct ttcttgctct 240

gttattttga tgtttcagct tgttggaagc ta 272

<210> 95

<211> 272

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700548019H1

<400> 95

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atgggtcttc cctgagacaa caccggtatc attgtcttgg ctgagggtcg attgatgaac 180

ttgggatgcg ccactggaca cccagtttt gtgatgtcct gctccttcac caaccaggca 240

tgctcagctt gagttgtgga aggagaagag ta 272

<210> 96

<211> 272

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700548021H1

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 ctactgattg tgaatgtccc tctcaatgtg gtttgacaca gacaaattac aaagaattga 180
 atgtattgta cgagaagtac aagaatcaag gatttgaaat cttggcattt ccgtgcaaca 240
 tttgctggac aggaaccagg aaacaatgaa ga 272

<210> 97
 <211> 272
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700548022H1
 <400> 97

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 aggacatcat aagctataca tttatgttca aatgggtgag atttacaatg aacaagttag 180
 agacctactt gcagaggaca aaacagacaa caaattagaa attcggagct gcaatgatgc 240
 gggttgagcc ttcctgacgc catattgcat tc 272

<210> 98
 <211> 268
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700548023H1
 <400> 98

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 actacgttgt gggggattat ggaagcaatt aggataagct gtgctgggta tccnactaga 180
 aaaacctttg atgaatttgt ggatcgnntt agccttcttt cacctgaagc attgacgnag 240
 ttctgatgag gtcattgctt caagagga 268

<210> 99
 <211> 241
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700548025H1

<400> 99

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ctccctacac ctcacgcaca cacgcacaat tcttcctttc tctctttttg atgtcttagg 180
aaccatccaa tctgaatttg tgtatcatgg tgattgattt tccttcttcc tttttgttgt 240
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<210> 100

<211> 270

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700548026H1

<400> 100

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cgggtacctg aatcaggga cccttctaga ggaacaacac ttgttattac tctttcattg 180
gtgcttttoga cacttgtgtc cttctccact ttcacacatg ccttctcttc ttctgcgttc 240
ggaatgaatc ctataaaacc taggcactca 270

<210> 101

<211> 269

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700548027H1

<400> 101

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acatggcttc ggctactctc tctgtagcca aaccagccct tcaggcaaatt gggaaaggct 120
tctctgaatt ctctggctcc gcagctcatc aggttccctt cccttttcta gaaaatcttc 180
agaggatttc cattctgtca ttgccttcca gacctatgca gttggaagca gtggagggtca 240
agaagggtgt gacagaagca aaactgaag 269

<210> 102
 <211> 271
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700548028H1

<400> 102

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 ctcttcccca tccttggtg gcaaggccgt gaagctgggc ncatcagccc ccgaagtcgg 120
 gagggtcagc atgaggaaac cgtcaccaag caggcctcct ccggaagccc atggtacggc 180
 ccagaccgcg tcaagtactt gggccattc tctggcgagc cncgcctcta cctcactgng 240
 agttcccagg tgantacggc tgggacatgc t 271

<210> 103
 <211> 269
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700548029H1

<400> 103

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 attcgattcg tggaagcagn aatactacac cacaagcggc gtggtggtag gttacgcagt 120
 atgctccagc ctctgcnat catcaacaaa tacgccatca ccaaattcaa ctaccagggc 180
 ctcttaaccg cgctccagta cntcacctcc gcactcggcg tctacgtctt tgggaataag 240
 gtttctcnac cacgngncct tcaccctcc 269

<210> 104
 <211> 269
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700548030H1

<400> 104

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ccaacagagc acttagagag tttaactgag agctgcaggg atggctcatt tggatgtttg 180
 tcatcangtc aggttcattg gtcagcntga ggnatatgga agtagacttt cttccatatt 240
 ccgacggtag aaggatcaaa agataaagt 269

<210> 105
 <211> 268
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700548031H1
 <400> 105

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 accttcacct ggtgcactaa caaaagtgc cctttggata agaattcaaa aggttatctg 180
 aggatctcac aaatttggtg aatttccctg attctatggt gtataggggtg tgcaagggtac 240
 agaatcatgg tgagtggaaa tggctggt 268

<210> 106
 <211> 270
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700548032H1
 <400> 106

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 cacgatccca atcctttcag gaagaagaag tcaatccttt ttcgaaatggg ggtgctgctc 180
 ctgcatocaa atcacgtatt ccaccattag catctcagcc actgggcttt ggtcaaaggc 240
 agatgctaca gttgatatac ttggatatac 270

<210> 107
 <211> 274
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700548033H1

<400> 107

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agcttaaagt gaggattcaa gagatccaag caagaaatgg agtccttata aactgggtgta 120
ggaagcaaat cgaagccagt accaagtttt tcagcactgc tggttgcca tttggtgagg 180
gctgccactt cttgcactat gttcccggtg gttataatgc agttgcccat atgatgaatt 240
aacacctgca gcacctctc caccatcaag aaat 274

<210> 108

<211> 270

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700548034H1

<400> 108

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ttcggaaaac gcgtangctg tgccgtcggt tttagtgggt ggatgggaac gacgtcgtgt 120
gagtacgtga gctggaggag gtgtttatgt cgaacgacan gnggaggagg gaggttcatt 180
acttgcttaa acgacgaggc ggtggctcgg atctggccgt tttgggaaaa gagaagacct 240
caaacacatg tcgtatcgct acgccattcg 270

<210> 109

<211> 268

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700548035H1

<400> 109

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agatgctatc atccctaata gtaggggcga cccattcaat agatctaata gatggaatgc 180
tatcaaatca tccacacca gtaacaattc tagtatgaaa attcgtgaaa atgaaagtgt 240
tgcagcctca tcatgacaaa gctatgca 268

<210> 110
 <211> 269
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700548036H1

<400> 110

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 tgggtgattct gctgtgatgt agggaacaat gactatcttc ccaccctttt caaggctgat 180
 taccctcctt atgggagggga ctttgtaac caccaaccta ctgggaggtt ttgcaaggca 240
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<210> 111
 <211> 270
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700548037H1

<400> 111

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 gatttccatt ctgtcatgcc ttccagacct atgcagttgg aagcagtgga ggatacaaga 180
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<210> 112
 <211> 269
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700548038H1

<400> 112

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 agccccagaa gtgggagggg gagcatgagg aagaccgtca ccaagcaggt ctctcagga 180

agcccatggt acgcccaga ccgagtcaag tacttgggcc cattctctgg cgagcncgtc 240
ctacctaacc ggtgagttcc caggcgact 269

<210> 113
<211> 270
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700548039H1

<400> 113

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caccaccaac gttaccgctg ctctgctttg ccttctctcc ctctctcgct ctccaacacc 180
aaaaccactt tgttctcacc ttccctcaac aactcttcag tgtcccgaat atcntccgnt 240
tcagacnaga gnttcttcag aggantcatc 270

<210> 114
<211> 265
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700548041H1

<400> 114

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ttgcgccggt ttcttctctc tctctggtcc gtgagttcct tcctctcact ccttctccgt 120
tctccggtcg ccgaaaattt atccggtgtt agcgatacgg aaaactcatc gcgattccgt 180
tttcttcttc gcttcgtttt ctacttctct ttatctttca cttacattac ctcttcatcg 240
gttgtttccg atcggatcca ttcgc 265

<210> 115
<211> 267
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700548042H1

<400> 115

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cagaatgcta aaaaacacac ggctgctctt ttaaattgca ttgacacttc actacgctca 180
aaccgagatg tgctagaagc agttgctacc agtctgcatg ctggtgatag aatgaaagag 240
aagcttctgt gaagcaaata gttgatc 267

<210> 116
<211> 52
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700548043H1
<400> 116

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<210> 117
<211> 266
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700548044H1
<400> 117

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cacctatatc ttcaccttct cctgctccag ccccaactcc tgctcctata tctnagaact 240
gctgtggaag ggtctgatat ctatgg 266

<210> 118
<211> 267
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700548046H1
<400> 118

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aagtgggtga aactaagcag aggagcacgc agaactcttc tattatttta tcgagtcaga 180
gaacgatcct aaaggaacc ctctctact ttggctaacc ggggtccccg gttntctgct 240
ttctctggcc ttgtctttga aataggt 267

<210> 119
<211> 268
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700548047H1
<400> 119

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tcatggttac cctcaggggc ataccctcca cctcctgggg cataccctcc ttaccaaggg 180
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ctggctatcc tctgctgct ggtgggta 268

<210> 120
<211> 269
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700548048H1
<400> 120

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aactttcttc cccaacctcg tcgtcatgga gaatagtaac attcagaagc agaatctgga 180
tggtctctac aactcgggtt tgcttgaatt gtctgcatct gatgattatg aagcttcaaa 240
gagaggtgga ggaaaaaggc ttagatgtg 269

<210> 121
<211> 268
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700548050H1

<400> 121

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 atgttgcagc ttcttgaatc ttcattggacg tactaagcaa gcagtttcta agccatttgg 180
 gtcaagaaat cactgtactt tccctaagtt ttcttttctc tattctgaga ccttgattga 240
 gctccactta ttatagtttt ggccggga 268

<210> 122

<211> 267

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700548051H1

<400> 122

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 ggctccttgtt ttccccagtt ctgatgctac tggaagtcca agcaataatt tttcttcctt 180
 gcgctctggg ttttctacat ctgaaccaag ggcgttatca tctgggagtg gggcaccgga 240
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<210> 123

<211> 259

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700548052H1

<400> 123

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 ctgctctgct cctgctcctg ctgcaactgg ggcactgcct gcatcagtta ctgcacctat 180
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 agggctctgat atctatggg 259

<210> 124
 <211> 261
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700548053H1

<400> 124

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 tgttgagtgg aagggaacca cactctccaa aacatttatg attcacttga tgttcattcta 180
 gggcagactt actctgtgtt ggttactgct gatcaaccac cccaagatac ctcattgttg 240
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<210> 125
 <211> 268
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700548054H1

<400> 125

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 cactactgcc atcctcttct ctcctactac ctccttcac tctctcatct cgcgcgcccc 180
 gacattcttc ttccaacctc ttcacacctc ttcgctctcc cacaaccccc attttgcac 240
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<210> 126
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 <213> Glycine max

<223> Clone ID: 700548055H1

<400> 126

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tgggtgtata tancggatca ctataagaca actcttttctt ttgaggtttc aaagaatgat 180
 tttcgaattc gattgaatct aaaacacaaa agaattgggtt tacaggatag aagaccacg 240
 tatatgtgat aggatattct atatga 266

<210> 127
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 <213> Glycine max
 <223> Clone ID: 700548056H1
 <400> 127

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 cggaagcact gagttgactc ggagggagtg gaaagtgttg ttgcgtaatg tctggtggta 120
 tcgctcgtgg acgctcaccg aggagcgcaa gtcgtggcgg aagaaccatc cccatggttt 180
 tgttgcgaa cggagacgct gcccgatgga accgtgaatt tgatgggtgtg gcatgcacta 240
 tncccgga gactgggatg attggg 266

<210> 128
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 <213> Glycine max
 <223> Clone ID: 700548057H1
 <400> 128

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 ctaggccaag gnattctttg tatttgga gataatggaa acaacaatta 180
 cttggctacc acggcacgtg ccgatgctcc cccttatggg attgattacc ctcaagtcac 240
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<210> 129
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700548058H1

<400> 129

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<210> 130

<211> 267

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700548059H1

<400> 130

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 aactggctat ggtagcgttc ttcggaggta aaatgcgcaa gttttaggct tgctgtggaa 180
 gcacacaaca tccgagcctt taaaaccatt cctgaagagn gcgttgaacc aaccagacta 240
 aattaatggc gaacnattta gattcgt 267

<210> 131

<211> 265

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700548060H1

<400> 131

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 ggtattttaa aaaaaaatga aagtagacaa ataaaaaagg aaaggagatg tttgantaaa 180
 aataattccc cttcaagttc ttattttttg agaggacagg acaatatgaa tgttattatg 240
 ctctatcaac acattaaaaa gatta 265

<210> 132

<211> 268

<212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700548062H1
 <400> 132
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 tccgaaatag ctgtacaaaa agttcatcag ctgtaatact atgtccagcc ataacaaatt 180
 catgaattca tctgcagaag aactactttc aggactttat tctactgccg ttgatgtatg 240
 tttccagttg ggaataagag ttttgatt 268

<210> 133
 <211> 268
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700548063H1
 <400> 133
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 gagggatttt ccaattggaa gcatcccaga tagcccttct ggtagacca tgtatcttga 180
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<210> 134
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 <223> Clone ID: 700548064H1
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 ccttagcttt aggtcagtta gatgatatgt ttgcatcatg ttatccgtag cttcaacttt 180
 ctgtaacttc ttgtatagga aaaggtttca aaccttcac tatecttctc ttgcttttgc 240

caaaatgtta

250

<210> 135
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 <213> Glycine max
 <223> Clone ID: 700548065H1
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 gcttggcaaa aaataactaag cagaggcctc cacgtcaccg tcgccaccac cgaattagtt 180
 taccaccgag tcttcaagtc ctccgcgcgc acccccaccg ccaccgtccc cacttttcac 240
 cagcaacgga atccaagtgc tattcttct 269

<210> 136
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700548066H1
 <400> 136

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 gtggacatgg tgccctcctt ccagtccttt ggcaagtgc gatggtaggg tcggatatat 180
 gtttgcatca ttttgggaca ggaataaagc attagagaat cttcagcgtg tatcagaatt 240
 tcaatgaaat gttagaagct gagaagg 267

<210> 137
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700548067H1
 <400> 137

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acgatccaca caacaaatcg gagcaccctt ttaaaatctt cagcaacaaa tctgcacatc 180
ttgacactga acaagatggg aaagagccag aagaggaagc agaagttgaa caaattgcag 240
tggagtaagg catgtgctga agaattgtg 268

<210> 138
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<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700548068H1

<400> 138

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gaggccccctg cccaaaacca gcaacaaata atgccccagc ccaacctgaa gtgcaggctg 180
taaataatgt gcctcctcca aaagcatctc ctctactaa aacaatagac cctacaaggc 240
tgctgggtatc aacagtcatt ctactga 267

<210> 139
<211> 224
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700548069H1

<400> 139

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cttatcgtac tctttgcacg tctgcaactc taacaatcat tctggagttg gcaacaacat 180
taaataatttn ctctgtctga gatgagangc tatcttttng ccta 224

<210> 140
<211> 265
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700548070H1

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 tgattctcgt gnaggagaaa gttcaaagga tgcactttga tgcccaacat tggttatggc 180
 tcagacaaga aaacccgcca ttatctacca aatggtttca agaaatttgt cgtcacaatg 240
 ngaaagacct ggaattctca tgatg 265

<210> 141
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 <212> nucleic acid
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 <223> Clone ID: 700548071H1

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 ttgaaggcgt tcattatccg gtaactgtga ctggtgttca gtttgccgtt gggactgtgc 180
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 ggagcgattt tgccgctggc tgca 264

<210> 142
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 <212> nucleic acid
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 <223> Clone ID: 700548072H1

<400> 142
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 agctcgaccg ccacgaggtt tcgccaccga caacaacagc ctcatcaacc tcgtccacaa 180
 gctccccgaa cagctctccc acgacatcat gggtccgttt gggaaagcag cgtcttccca 240
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<210> 143
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 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700548073H1

 <400> 143

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 ccaaattgtat ttactatgct gcaaacaacc cttctgaggc caccattgcc aagcgcagga 180
 gttatgcaaa caccattagc tatctgactc ctccagcgga aaatgctggg ttacaaaggt 240
 cttaagcagt taagtgagct cat 263

<210> 144
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 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700548074H1

 <400> 144

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 tgctctgaac atactagttt gcttactggg gtgctgaggc ttgcaagttt ggctgagaat 180
 agtttaaagt cagttgaacg gattggcact tacatagatt tgccctcgga ggccctctg 240
 tcatcgataa taatcgccct cctcc 265

<210> 145
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 <213> Glycine max

 <223> Clone ID: 700548075H1

 <400> 145

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 caaatgctac aaaggagtct cagctgtctg tgaaccactt cctccagata gaccattgtg 180

gttccctggt agctcacctc ctgagtggct tgatggcagt cttcctggtg attggattcg 240
accctcttgg attaggtct gatcc 265

<210> 146
<211> 247
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700548076H1

<400> 146

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aagggtatg ccctttcttt actcagaagg gccttattcc aagttccacc aaacaagttt 180
ttattcattt gaaacatctt tttttccga atacagaaaa nttcatttca atttcaatta 240
tttctat 247

<210> 147
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<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700548077H1

<400> 147

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atgcttggtg gatgatggat ggtgggaagg cattgttggt caaaaggact cggaatctaa 180
ttgtcatggt tatttcccag gggaaaaagt ggtgtcggta tttggtcctg gaattgagag 240
agtctcaaga ttgggtgggg at 262

<210> 148
<211> 264
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700548078H1

<400> 148

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aaaacttgta taacaacact agctgctaata ggaaagaagg aggagagtaa tggagcacct 180
aatgacacat atcctgcgtt tcccgggtgg tatgctgatg tttcctggcc ngagaagcac 240
acacatataa aatagaaaag attc 264

<210> 149
<211> 264
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700548079H1

<400> 149

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ggaatcataa aattttataa tattatTTTT attttatttt ccccatTTTct cttaaaacaa 180
actatatcac atacaacttt tttnttctct tttttaaatt attatTTTTc ctctatctat 240
catanagtac ttttttctct naaa 264

<210> 150
<211> 269
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700548080H1

<400> 150

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cgggtccccag cagctcgctc cccgcacctt cctgcgcgtcg attcccaagc cgagagctcc 180
tcttcacgcc gcgaaatccg tcgccagcgc gcgcgcgaac ttcccgagac ttccgacaac 240
ctcattctct ccggaacaa acgcgcggt 269

<210> 151
<211> 265

<212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700548082H1
 <400> 151
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 tcagggtgagc cccatcctat ctactggtg aattcccagg tgactatggt tgggacactg 180
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<210> 152
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 <212> nucleic acid
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 <223> Clone ID: 700548083H1
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<210> 153
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700548084H1
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<210> 154
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<212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700548085H1
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<210> 155
 <211> 263
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700548086H1
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 aaannggang aaaaagagna aga 263

<210> 156
 <211> 264
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700548087H1
 <400> 156
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 tatggtgccc gactccggag gtgaaatgcg caagttggag gcttgctgtg gaagcacaca 180
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264

<210> 157
 <211> 265
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700548088H1
 <400> 157

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 caaaaattct gcacagaacg gtgttactgt cacagtggtc acaaccacc aaaacgcac 180
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<210> 158
 <211> 265
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700548089H1
 <400> 158

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<210> 159
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700548090H1
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<210> 160
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 <223> Clone ID: 700548092H1
 <400> 160

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<210> 161
 <211> 260
 <212> nucleic acid
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 <223> Clone ID: 700548093H1
 <400> 161

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 aagctttggt gttttacgca gggaaagctc ctaaagggga caaaagcatg gatcatgcac 240
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<210> 162
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 <212> nucleic acid
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<223> Clone ID: 700548095H1

<400> 162

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 cgcaggttng agccatgctc agaagtactt tctccgacga agcaacctca atcgccgtcg 180
 ccgtagatcc agcctctttg acatcaccac cgacacggtc tctgcaattc atggagggag 240
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<210> 163

<211> 263

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700548096H1

<400> 163

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 aacaacaact ctctttaacc gttggagcta gaggtccaat tctgctggag gattatcatc 180
 ttgtggagaa gcttgcaaatt tttgataggg aacgtatccc agaacgtgtt gcatgccagg 240
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<210> 164

<211> 187

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700553501H1

<400> 164

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<210> 165
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 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700553502H1

<400> 165

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<210> 166
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 <212> nucleic acid
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<223> Clone ID: 700553503H1

<400> 166

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<210> 167
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<223> Clone ID: 700553504H1

<400> 167

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 gtgtaacgtg tgtgaggctg cggaggccaa ggttctttgt tgtgctgatg aggctgggct 180
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<210> 168
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 <223> Clone ID: 700553505H1

 <400> 168

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 tgtgcatgca tcagcccatt ggtatctgga gaatgttttg cctgttctac agagttatgg 180
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<210> 169
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 <213> Glycine max

 <223> Clone ID: 700553506H1

 <400> 169

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<210> 170
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 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700553507H1

 <400> 170

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aggcggatcc gctatctggt gttggcaatg gaatgaattt tggcaatcag ttgcaatcan 240
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<210> 171
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<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700553508H1

<400> 171

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aggcacttgg caagctgagc ctggtgttgt agccaaagct gtcaccacag ccattctggt 180
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<210> 172
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<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700553509H1

<400> 172

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gtgcattgtg ttgcaggtg gcaccaattg atgaggagc taggaagcat tcggagctat 180
gcaaagcatc ttcgatataga tgggtgtgaag gatactatag ctgttgctc tggcaaaggt 240
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<210> 173
<211> 265
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700553510H1

<400> 173

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ccagcttcat ttgtgcttct tctgttatgg caacatctga agtttcaggg aangaagtgg 180
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aagaagaaaa atttaaaggg ctttt 265

<210> 174
<211> 275
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700553511H1
<400> 174

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cagcattacc agtgттаagg gtgtcatcgg aaccggcatt aacatcattg gaggagtcgt 180
cgacaccgtt actgctttgg cgtcccacat ctccatccag ctcattagtg ccaccaaggc 240
tgatggacat gggaaaggaa aagttggaaa ggcta 275

<210> 175
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<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700553512H1
<400> 175

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ggtgcaaggc acagcttcga tgggaaattg ctgggggttct ccacctcaca acccaacccc 240
aacaactacc ggtaacctta gtacaggtac gacggg 276

<210> 176
<211> 275

<212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700553513H1
 <400> 176
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<210> 177
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 <212> nucleic acid
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 <223> Clone ID: 700553514H1
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 tgaagaggca gatgatgggg aagagcaagg gaatgagaat tgcattgcaa gccaccagca 180
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<210> 178
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700553518H1
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<210> 179
 <211> 271
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700553520H1

 <400> 179

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 cactatacag catttgtccg ttatggctat gataaatggt atgattttga tgacagcagg 180
 gtcgaatctg ttagtgagga catgataaag actcctgctg cctatgttct tttctacagg 240
 aaaatttaga tgaaaatttt agatgcaatt g 271

<210> 180
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 <212> nucleic acid
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 <223> Clone ID: 700553521H1

 <400> 180

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 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700553522H1

 <400> 181

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 gtgctgttnt tgtnaggcgt tttcttttac nctgtctcct ctgcttcac tccgccaaat 180
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<400> 182

<210>	183
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<212>	nucleic acid
<213>	Glycine max

<400> 183

<210>	184
<211>	245
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<400> 184

67

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gttca 245

<210> 185
<211> 274
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700553526H1

<400> 185

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atgttgaata cctccacct ccttcttcat cactatcaga ggatcagaag ccattctctgg 180
ttcgaattga ctccgagtgt gcattctcca tcatcaacaa ccacagtacc ccagataaca 240
aaaacgaccc aaagggccac gaacagtgtt ttgg 274

<210> 186
<211> 275
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700553527H1

<400> 186

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tctcttcca ccattttccc cccaaagtcc gttactcca ccactctttt cgtttctgcc 180
accccttct tcaactctca tcccaagctt ggttttcgtg gtgggattgt ggccatggcc 240
gcacctggct ctctccgcaa atccgaggaa gagtg 275

<210> 187
<211> 275
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700553528H1

<400> 187

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 aaattgtctt ccgaacaagt ttctacaaat caacaatttt nttcttcagc acaaccaact 180
 tganctagga tttcctggac atgaaggaac aaacaacttg agcttcttta actgttcttc 240
 agttgggcat agatacctca caagatgggt ttgtt 275

<210> 188
 <211> 274
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700553529H1
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 ttccacttgg agtgatttta gccattccac cttttaacta tcccgtaaat cttgctgttt 180
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<210> 189
 <211> 276
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 <213> Glycine max
 <223> Clone ID: 700553530H1
 <400> 189

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 attggaagcg ggctttctct ggcagtagtt gtctcaggtt aaggagaaac aaccctgtga 180
 tttggaaca aagtagggcc aggactatct gaagcagata aaatgtggag ggttttcagt 240
 gctttgggaa acattgcact tgcttgctct tatgct 276

<210> 190
 <211> 278

<212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700553531H1
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 gacgagagtg agaagcagaa ggagtgtcat cgtagcgtgt gcttcagagg gagacagtgg 240
 cagcagtagc acaagctcgt ttctctctcg gacccaaa 278

<210> 191
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700553532H1
 <400> 191
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 ccgcaccctc ggcgacaccg ttatcggcac cgtccatggt cctctcaggg aactcatgga 180
 caatcccggc gacgacggtt ccttccgcca agtcagttac caggtgatga aacagtcagg 240
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<210> 192
 <211> 256
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700553533H1
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 actgctctga agcagctcaa tgagttcgtc cgcaanaccg gtggcgccgg caaaggctcg 120
 actaacatgc gccgcaccgt caagagtgtt cctcagagca tttgggtatgg ccctgaccgt 180
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ggtgactacg gatggg

256

<210> 193
<211> 277
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700553534H1

<400> 193

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accttgaaac tgaaactccc gatttcaaag cccagatgc tgtccctcct tggagggata 180
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gacttcaacc tcacccttcc cataataatg gtggagt 277

<210> 194
<211> 272
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700553535H1

<400> 194

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aaatgaaaaa gcactttccg ttcagttttt atgttaaata tcaatttggg ttgccgtttg 180
natatgggta agttagcagg gtatctaatt aacgacaaac atatactttt agcatgtaca 240
tcattcttat tttcttttat ttggcttttag tg 272

<210> 195
<211> 273
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700553536H1

<400> 195

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 aacgcgttat cccaaaagct tttttttctg cccctcaa at tcaaagccac cacaaaaacca 180
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 aacgctcatt ttcagcactg tttcaccaaa tcc 273

<210> 196
 <211> 270
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700553537H1
 <400> 196

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<210> 197
 <211> 270
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700553538H1
 <400> 197

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<210> 198
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 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700553539H1

<400> 198

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 atgcaagacc ctcgtctgaa gactgccacg t 271

<210> 199

<211> 175

<212> nucleic acid

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<400> 199

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<210> 200

<211> 271

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<213> Glycine max

<223> Clone ID: 700553541H1

<400> 200

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 cctctccgaa tgaaaactgg ctatggtgag cgttcttcg aggtaaaatg cgcaagtttt 180
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<210> 201

<211> 273

<212> nucleic acid
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<223> Clone ID: 700553542H1

<400> 201

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<210> 202
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<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700553543H1

<400> 202

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<210> 203
<211> 272
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700553544H1

<400> 203

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aaatccgagt atgaagagca tggagcttca tatatccaaa ggaagtgtcc atgagctgct 180
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272

<210> 204

<211> 273

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700553545H1

<400> 204

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tggacctggg gtttcagctc ccagttcatc cttctttggg agcagcttga agaaggttat 180
tggctcaagg gtccccaaca caaagatttc ctctggaagc ttcaagattg ttgctgtaga 240
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<210> 205

<211> 93

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700553546H1

<400> 205

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<210> 206

<211> 279

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700553547H1

<400> 206

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tctccttcca ccattttccc cccaaagtcc gttactccca ccactctttt cgtttctgcc 180
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<210> 207
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 <213> Glycine max
 <223> Clone ID: 700553548H1
 <400> 207

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 acaagcaatg actcattcct aaaccaagtt atccctgaaa acatcaccga attccaagtg 180
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<210> 208
 <211> 273
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700553550H1
 <400> 208

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 cggcctgtga ttgtttctgt ttctgctatc tccgataata actctcactc ttacactagc 180
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<210> 209
 <211> 98
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700553551H1
 <400> 209

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ttggggcgga cngcnacaat tcncataggg agtnnggc

98

<210> 210
<211> 268
<212> nucleic acid
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<223> Clone ID: 700553552H1

<400> 210

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<210> 223
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<210> 227

<211> 270

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700553571H1

<400> 227

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<210> 228

<211> 269

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700553572H1

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aagttgctcc taccacccc gtaggttgt 269

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<223> Clone ID: 700553577H1

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<223> Clone ID: 700553584H1

<400> 237

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 <223> Clone ID: 700553586H1
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<210> 240
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<212> nucleic acid
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<223> Clone ID: 700553588H1

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269

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<210> 247
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<210> 249

<211> 290

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700553603H1

<400> 249

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<210> 250

<211> 288

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700553604H1

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<223>      Clone ID: 700553605H1

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<223>      Clone ID: 700553606H1

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<223>      Clone ID: 700553608H1

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 <212> nucleic acid
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<223> Clone ID: 700553618H1

<400> 262

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<223> Clone ID: 700553619H1

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<223> Clone ID: 700553620H1

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naaact 186

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<223> Clone ID: 700553625H1

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gttcgtggag aacaaggcgt cggcgggtgtc gctgcaggtg ggagaacacg tgcagttggc 240
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<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700553626H1

<400> 269

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<223> Clone ID: 700553627H1

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tggggcccag atggggcgaa tgggtgagcgg aaaagtgaag gagatgcttc aggcgccgac 180

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<210> 271
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<212> nucleic acid
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<223> Clone ID: 700553628H1

<400> 271

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<223> Clone ID: 700553629H1

<400> 272

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<210> 273
<211> 208
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<223> Clone ID: 700553630H1

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 ggatactttc taaggtggag taaagattct gaatgggaaa ccagtcctct gtctcctgat 240
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<210> 279
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<223> Clone ID: 700553638H1

<400> 279

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<210> 280

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<213> Glycine max

<223> Clone ID: 700553639H1

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<210> 281

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<213> Glycine max

<223> Clone ID: 700553640H1

<400> 281

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<223> Clone ID: 700553651H1

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<223> Clone ID: 700553658H1

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281

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<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700553659H1

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<400> 297

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<400> 298

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<210> 299
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 <213> Glycine max
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<210> 304
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 <212> nucleic acid
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 <223> Clone ID: 700553667H1

<400> 304

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accagtgtct atccaagaga gcacgagtgc ttgaaagaga tacgcaagat gactgcaaaa 180
caccactga acatcatggc aacaccagca gacgaaggac aacttctgag catgcttggt 240
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<210> 305

<211> 284

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700553669H1

<400> 305

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ccctagccaa agaaagacct tggtgagcag cagcagcaga gagagagagg cttatggaag 180
gagtaccgca cccaataccc agaactgtcg aagaggtttt caccgatttt aagggcagac 240
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<210> 306

<211> 282

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700553670H1

<400> 306

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cgatcagttg ctgattccat acccttttct tcaaacaagg tgaatgaagt gttaaacaag 180
ttctccatca aggaagggtc agatgaggct caaactgtga agaacaccat cagtgagtgt 240
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<210> 307
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 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700553673H1

<400> 307

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 ttgcaaagca gaagttgcca aagatggcgt ttgactacta cgcattctgg gcagaggacc 180
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 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700553675H1

<400> 308

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 aagtttaacg tggaagaaga ggtagttga gcaacaagtt atattaatta gtnnnnnnnn 180
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<210> 309
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 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700553676H1

<400> 309

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 tagcagcaga accagagcca gtggttgata agcaaggga ccctttggag ccaggagtag 180

ggtactacnt gtggccactt tgggctgatg aaggaggcct cacactaggc caaacaagga 240
acaagacatg ccctctttat gttatccgtg acccttcat 279

<210> 310
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<212> nucleic acid
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<223> Clone ID: 700553677H1

<400> 310

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atctatcttt ttgttgaatt ctctaaagct tcggatgatg acaacacgcc tgcaatttct 180
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<210> 311
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<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700553678H1

<400> 311

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tcatgtcgaa gatcctgaga agcagatact ggagccggcg ataaaaggaa cagttaatgt 180
gttgaagncg gcgaaggaag cgggggtgga gcgcgtgggt gcgacttcgt cgatctcatc 240
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<210> 312
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<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700553679H1

<400> 312

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tcctcttctt tcccctctct cattcaagac aggcctgttt ttgctgcccc tgcccccatc 180
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cagaaattgt tgaggagaa gagtgaatca aagcgacant 280

<210> 313
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<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700553680H1
<400> 313

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ggaatttgtt tagcttctac tgaggaacag gaaagggaca ggattgccaa gctgccagga 180
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<210> 314
<211> 285
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700553682H1
<400> 314

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ccatgccacc gtccaagata tcaaggatga aatgagacg aaacatttgg aggaaatgga 180
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cgctgccata aagggttggt ccggcgtaat ccaccttgca tgtcc 285

<210> 315
<211> 282

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280

<210> 318
 <211> 278
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700553687H1
 <400> 318

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 cgagcaatgg tgatcggtcg tggcggntga acttogacgg gtttcagcta tcttcanggn 180
 acgcggngaa gcaagtgaac cccctcgcg gactccacga ctgttacggg gttctaggtc 240
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<210> 319
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700553688H1
 <400> 319

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 acgcttgaat gtggggagtg gaagcagggg gccctcagtc acacgtgcag ggttcacagt 180
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<210> 320
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700553689H1
 <400> 320

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 ctattggatc cttggagcgg gtcattttgt acctactgac cagccctgcg tagactggga 240
 tatggtgggt gcaattacac aatcaccagc gg 272

<210> 321
 <211> 84
 <212> nucleic acid
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 <223> Clone ID: 700553692H1
 <400> 321

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 ataaaccnca ataatggaac ttgg 84

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 <212> nucleic acid
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 attggaaatc atccagagcc ttaaagcaaa atgagatcat gtacattgga ctttaggcca 180
 tattttctca acagactagg atgatgt 207

<210> 323
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 <212> nucleic acid
 <213> Glycine max
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<210> 324
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 <213> Glycine max
 <223> Clone ID: 700553695H1
 <400> 324
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 gctgcttggc ttgttggaat aaactctctc aagattcagc ctttcaagct tcctactttg 120
 ggacctcatg atgtcagagt tagaatgang gctgttggtt tttgtgggag tgatgttcac 180
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<210> 325
 <211> 292
 <212> nucleic acid
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 <223> Clone ID: 700553701H1
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 tgaccaacag anacttatct ttgcgggtaa acagcttgag gatggtcgaa cccttgcnaga 240
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<210> 326
 <211> 289
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700553702H1
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 ctccccaaag cccaacctt gaaactgaan tccaatttc aaagccccag atgctgtccc 180

tcctgggncg gatagcacca ctggtcttgg ccagaccctc cctagcagaa gaatttgaga 240
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<210> 327
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<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700553703H1

<400> 327

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<210> 328
<211> 284
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700553704H1

<400> 328

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aaaattcaag agatggccac actcccctac aagacctcat ggcaccacaa cttcgngaa 180
gannagccat ganngatctc ananaagcna ccctagnmnt ggatncttcn caacaccccc 240
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<210> 329
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<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700553705H1

<400> 329

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 aactgaggct aaagatagaa gggagtgaat ttgtagctga ggg 283

<210> 330
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700553706H1
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 ctccccgtcg agggcgccgt cgtcacacca ccagcgccgc ccagggcgcc gccatcggcg 180
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<210> 331
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 <213> Glycine max
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 accatctcct ctttctctct gaaacctgcc accacaacaa gatcattact caacactagt 180
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<210> 332
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<212> nucleic acid
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<223> Clone ID: 700553708H1

<400> 332

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tgctgtttat tggtttagct actcgaaccc agaaaattta ttgatggaag caaacctgc 180
ctttctgatt aangattatg aggatccaaa attgtgggca gctttggaag aacttgacaa 240
ggctaccagt gctcgttcag tttgaattac tagtgcaact ga 282

<210> 333
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<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700553709H1

<400> 333

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aaagtgtttg tgctggcag gccataatg catacatatt tcttggtttt ggtcttggtt 180
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tggctgcaca agtgagccaa gagaactttg ataa 274

<210> 334
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<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700553710H1

<400> 334

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tgtggtttca cttgtcactg aagaggtgca caccacatag atttacgttc ttcaacaaaa 180
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atcagtgact accaccagaa aaatgaagct atgtttgata

280

<210> 335

<211> 280

<212> nucleic acid

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<223> Clone ID: 700553711H1

<400> 335

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ccaatgcttg cgtcctcttc ctcgatttcg cacctctttc tcaatcagcg aagagcggag 180

gttcgcggtt cgagtggagg atacggaact gtgtcggcac cgaagtcagt tgcgtctgat 240

cctgatcagt tgaagagcgc cagagaagat atcaaggagc 280

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<400> 336

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cactgccaac cgtaccogga ataccaact tttgttggtg ttcttgacag ccttcgctaa 180

ttacgtnatt gcatttgctg cccaaggcgt ctgttgatgat tgtntttctc tttggaactt 240

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<210> 337

<211> 106

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700553713H1

<400> 337

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106

<210> 338
 <211> 278
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 <223> Clone ID: 700553714H1
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<210> 339
 <211> 280
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700553715H1
 <400> 339

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 attgcagaca tgagttcact tgaccctcgg atatatcaga gaatcatttt actggtcctc 180
 taccaagtaa catgccaaag gggctccaaa actttaatgc ttcacaaaat gatctgtctg 240
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<210> 340
 <211> 288
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700553717H1
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<210> 341
 <211> 284
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700553718H1
 <400> 341

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 cactcgaaga cgatcttaca ttcaccgcac gctggtcgag cttcgaatca tgcgagctca 180
 gtttccccac gttcacangt ggtgtggtga tgcttgtttc cagagttcgg ttgagccttt 240
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<210> 342
 <211> 281
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700553719H1
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 tcgaagggaac tatagccgag caaagtaccg tcttgaacac attgttcgca cgcataaggg 240
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<210> 343
 <211> 284
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700553721H1

<400> 343

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 ccatgttact ggcttggttt gaatctaata gtaatgcact tgctccagag gaagcagagg 180
 agataaatga cgaatatgat attaataatta tttcagataa ttcagccatt agaaataana 240
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<210> 344

<211> 272

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700553722H1

<400> 344

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 tcctcgcaac gacgtgtncg ccgacgcgca atcctgcaac ggcatacctcg tctcatacgc 180
 ctacaccggc ggcttgcggt tgccgcccga cgtctccgac tcggctaagc agccgtaccg 240
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<210> 345

<211> 281

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700553723H1

<400> 345

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 aactcacaac aacaatgcaa cctcccaccc aataattccc atagtcctgc tcctatgcct 180
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 agtaacaaaa ccggcttcac cgaaggcaac gctaacggag c 281

<210> 346
 <211> 281
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700553724H1

 <400> 346

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 cacctccgac tccagcggca atttcatcat ccccgagacc caactcctcc gtggatgcag 180
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 <223> Clone ID: 700553725H1

 <400> 347

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 <223> Clone ID: 700553726H1

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ctcctccata ccctccctga ncacccacac tctcatggcc cgaatccgcc accgtagaac 180
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<210> 349
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<210> 350
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 <223> Clone ID: 700553728H1
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 ctggaactcg ttggatcaat cttctcattc aaaatgatgt tcgccttgaa atatgtaccg 180
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<210> 351
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 <223> Clone ID: 700553729H1

<210> 354
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 <223> Clone ID: 700553732H1

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 acagcaagaa gggcagctgc agcagagaag aagctatgtg ataacatgtg cagcagggtga 180
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 <223> Clone ID: 700553733H1

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 gttctgtnc c atgggtggaat gagcttctga gtgtggaaaa aaaggacttt cgattaaacc 180
 aangaggggt gatgctctac ttttttggag tatgaagcca gatgcaagtt tagatccatc 240
 aagcttacat ggtggttgtc cagtgatcaa gggtaataaa tggcc 285

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 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700553734H1

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 ttggtgaana ggggtgtgaa tgangcaagg tgatgtgggt agtggcagca ccagncattt 180

taacaagggtt ctccaccttt ggtatcaatg ttataagcca agcatttatt ggtcatattg 240
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<210> 357
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<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700553735H1

<400> 357

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<212> nucleic acid
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<223> Clone ID: 700553736H1

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gcacgcggtt tgtcccacgc gcagtgtga tggacctgga gcccgggaacc atggacagcg 240
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<223> Clone ID: 700553737H1

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 ncagaggaga attgcnttct anagcgttat ctgcagaga tgggnnctgn ntctctgctt 180
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 ccgatgtgtc cgtcgganga ncnactcaga nctgatacn tccgcnatca agatccantt 180
 agatcaactc aattccaaga tccanattct cgagtctcan atcagtgaaa agttggaaga 240
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<210> 362
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<210> 363
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<212> nucleic acid
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<223> Clone ID: 700553741H1

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aagtgaagc ncctcctaga aagttggctt ccctgacacc gacactgaca ccctacacgc 180
caccaagaag agtttccctt tcatgagagc aatgagagct tctgagaaca agagtgatcc 240
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<210> 364
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<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700553742H1

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gcttgtgcaa gaacggttca gatgttgcat cttctttcag ctctaaatgg cagcactctt 180
cncncggtta agaagcagcc acgtgctega attcttcaat gttctctcag gattagagct 240
tgtagttcca tggctaacaa aaaggatata tacaac 277

<210> 365
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<212> nucleic acid
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<223> Clone ID: 700553743H1

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 <223> Clone ID: 700553745H1

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 atccttaatg ttcattgatgt gtatgaagtt ccacaaacta gtgaaaatca tgaagtcagt 240
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 <213> Glycine max
 <223> Clone ID: 700553746H1

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 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700553747H1

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<211> 280

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700553748H1

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tcttaagagt gctgagtgcg ganaaagggt ggggcacctg gattcaaagt tgcaattttg 180
ggggcttctg ggggaattgg tcaaccctt tctttgctga tgaagatgaa cccattgggt 240
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<210> 370

<211> 282

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700553749H1

<400> 370

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gtgtgtggac ccccggtat gataaagcaa tatctggaga aaaggccaag gactggacac 180
aaggagaggt ttctggcatc ctaaaagagg ctggatacac tgaacaaatg gtatacaaat 240
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<210> 371

<211> 279

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700553751H1

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atcctcancc caagacgacc tcaagaaaat cgccgnctac aaggccgtcg agtacgtcga 240
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<213> Glycine max

<223> Clone ID: 700553752H1

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tggcaaatga gattggtttc ctgtgatgat caaggcaaca gctggtggtg gaggacgtgg 180
catgctctt gctaaagaac ctgctgagtt tgtgaagttt ttacagcaag ctaagagtna 240
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<210> 373

<211> 278

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700553753H1

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caacctatgn atttgaccag accnccctnt tctgctcagg tccnaganga agagaacaga 180
nnagctatcc ggttctgtca gtncaagana ttctccantt nganataatt gacgtataan 240
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 <223> Clone ID: 700553754H1
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 tactctgaat tttccggcca aaaccggcga ggtcgccgga gaaatcgagc ttctctcaga 180
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[illegible]

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<223>      Clone ID: 700553761H1

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137

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 ggggaagttg accagcaaca tgattaggac ccttggcagg ttaaagaaga ttgagcttgc 180
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 gctctctgaa gattcatgcn ttaccanaaa atgggaaccc acaaagggtg tgcctcaggc 180
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Variable	Mean	SD	Min	Max
Age	34.5	10.2	21	55
Gender	Male			
Marital status	Married			
Education	High school			
Occupation	Manager			
Income	10,000	5,000	5,000	20,000
Health status	Good			
Exercise frequency	3 times/week			
Stress level	Low			
Sleep quality	Good			
Dietary habits	Healthy			
Alcohol consumption	Low			
Tobacco use	Non-smoker			
Family size	3			
Work hours	40			
Commuting time	30			
Living space	100			
Neighborhood safety	High			
Access to green spaces	Yes			
Public transportation	Good			
Local economy	Stable			
Community support	Strong			
Local government services	Efficient			
Local culture	Diverse			
Local history	Rich			
Local infrastructure	Modern			
Local environment	Clean			
Local climate	Temperate			
Local population	10,000			
Local government budget	100,000			
Local government revenue	100,000			
Local government debt	100,000			
Local government assets	100,000			
Local government liabilities	100,000			
Local government equity	100,000			
Local government income	100,000			
Local government expenses	100,000			
Local government savings	100,000			
Local government investments	100,000			
Local government loans	100,000			
Local government grants	100,000			
Local government taxes	100,000			
Local government fees	100,000			
Local government fines	100,000			
Local government penalties	100,000			
Local government interest	100,000			
Local government dividends	100,000			
Local government profits	100,000			
Local government losses	100,000			
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Local government net expenses	100,000			
Local government net savings	100,000			
Local government net investments	100,000			
Local government net loans	100,000			
Local government net grants	100,000			
Local government net taxes	100,000			
Local government net fees	100,000			
Local government net fines	100,000			
Local government net penalties	100,000			
Local government net interest	100,000			
Local government net dividends	100,000			
Local government net profits	100,000			
Local government net losses	100,000			
Local government net net income	100,000			
Local government net net expenses	100,000			
Local government net net savings	100,000			
Local government net net investments	100,000			
Local government net net loans	100,000			
Local government net net grants	100,000			
Local government net net taxes	100,000			
Local government net net fees	100,000			
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Local government net net interest	100,000			
Local government net net dividends	100,000			
Local government net net profits	100,000			
Local government net net losses	100,000			
Local government net net net income	100,000			
Local government net net net expenses	100,000			
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Local government net net net loans	100,000			
Local government net net net grants	100,000			
Local government net net net taxes	100,000			
Local government net net net fees	100,000			
Local government net net net fines	100,000			
Local government net net net penalties	100,000			
Local government net net net interest	100,000			
Local government net net net dividends	100,000			
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Local government net net net net income	100,000			
Local government net net net net expenses	100,000			</

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 <223> Clone ID: 700553809H1

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<223> Clone ID: 700553810H1

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<223> Clone ID: 700553811H1

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<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700553817H1

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<212> nucleic acid

<213> Glycine max

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 gaagcagctc tgcaggggaa tttggaggct gtttagagtc caacttcggg gcctgtgcgt 240
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 caattacttt ttacacagaa gatgacattc ctttccttcg gaatgttgct aatccttatgg 240
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 actcaacagt tgccaggtga atcagacagt gattatgctg atttttcttc caagatcttg 240
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<223> Clone ID: 700553840H1

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 cacaaagggg aacctctgca acagtctccc gtcatgcacc tcctacctca ccttcaagtc 240
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 accaancaac tgttgctgat cagagggcca ggaagatcgc taggttcaa cgtcagagag 240
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 <223> Clone ID: 700553846H1

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<223> Clone ID: 700553852H1

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 <213> Glycine max

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<223> Clone ID: 700553858H1

<400> 452

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<223> Clone ID: 700553859H1

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<223> Clone ID: 700553863H1
<400> 456

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<210> 457
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<212> nucleic acid
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<223> Clone ID: 700553864H1
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tcatgctctt tgcagttgtc taacaagact gacaactatg tggctttcaa ggttaagaca 240
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<210> 458
<211> 248

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<223> Clone ID: 700553871H1

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<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700553874H1

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<210> 468

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<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700553875H1

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<223> Clone ID: 700553879H1

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 cctcatgaac attgctnata accccaccaa tgtgcagctt cctggtatgt ataacaagga 240
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<210> 474
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 <213> Glycine max
 <223> Clone ID: 700553883H1

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ccctctccga atgaaaactg gctatgggtga gcgttcttcg gaggtaaaat gcgcaagttt 180
taggcttgct gtggaagcac acaacatccg agcctttaa accattcctg aagagtgcgt 240
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<210> 475
<211> 293
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700553884H1

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tactttttgc cttgaaaact tacaagatat accaacatta aaaaaagaa aaagtatata 180
ctatatgtac aaggtcactc ccaaagtact ggtttttcct taaaaacaaa tggtaaataca 240
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<210> 476
<211> 289
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700553885H1

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tgcttgctca acacaaagat cactggggat gatgctccag gagaaacttg gcacatggtc 180
ttcagcaccg agggagagat tccttacaga gaaggacaat caattggggg aattccagat 240
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 <213> Glycine max

<223> Clone ID: 700553886H1

<400> 477

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<210> 478
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 <213> Glycine max

<223> Clone ID: 700553887H1

<400> 478

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 tgttttggca aaaacagaaa gacacttggt cagagtcaga gaggggctat tcgttgtgag 180
 gcttctnctg cttctgatgt tgtggctgat gccaccaaga aagctgctan tgtctctgct 240
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<223> Clone ID: 700553888H1

<400> 479

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gatcactgcc ttaatcggat tcagctgttg ttctctctcc tcaatttcgt attggatgat 60
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<210> 483
 <211> 285
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700553895H1
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 agtctgtttg ggaaagggag gtacaaattc tgggcgttag cgggccatct tgccttctggc 240
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<210> 484
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700553896H1
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 gctgtggact ctgcgatttc gtccccattg ggtcccccg cctgtgagaa ggacgcaaag 180
 gcgttgccgt tcatcgaaga aatgactcgc aacgccgacg ccgtccagga gagagtcctg 240
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<210> 485
 <211> 300

<212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700553901H1
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 gattcaatgt taagaatggt gctgtcaagg atctcaagcg tggttttggt gcgtctaact 180
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<210> 486
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700553902H1
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 ngtgnanctg cnatnnagag gcctagccac cttcatcacc atatgnnnnn nnnnnnnnnn 180
 nnnnnnnnng aaactatgaa ctgcgtttat gcatgtcgga aaatcttctt ttgataagag 240
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<210> 487
 <211> 299
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700553904H1
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 cgaattgata gatcaatata ataatggagt gctgaactgg gatgaattct cttcagcagt 180
 gaaggaagcc catgccaatc gcatgggtag ccaaaccaag aggtttgtaa tccctgacaa 240

gccaaaagaa gaggattatt tctatgccaa cccacaggag tgtttggaac catcagcat 299

<210> 488
 <211> 295
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700553906H1
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 ttttgggagg ccaagagtgg ccgttgctac cgcaccatcc aatatcctga ttcgcaagta 240
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<210> 489
 <211> 283
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700553908H1
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 gtgtctactg tggtagcagc cctggcaaaa accctagcta tcagctcgct gctattcagc 240
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<210> 490
 <211> 293
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700553909H1
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gtagagaaca gaacactcct ttcacagttt tactctcact atctcgtaaa ccgaatcaag 120
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angnngcgtn ggnaatgnnt cctctcncgg tnaentnctt ntnaattgga ttttcggggg 240
ttatgncna gaggtncna ngggntgat gttgtggngg ntatnttagg gcg 293

<210> 491
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<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700553910H1

<400> 491

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acgtgcacaa ctggcactgg gccgagacca actgcctcga gtggtccaga acctttttca 180
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tggaagaagt cgacggcgag gcctatgtca acgtccgca 279

<210> 492
<211> 288
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700553911H1

<400> 492

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ctcaattgtc gaaagatgag tacaagtggg taatgagatt gacgaacttg cgttggttga 180
gcgaaacaaa gcagagatgt acctgaagga gccgctatgg agtgaaacag ggaaaggcga 240
tggaagtgc aaaacagagg attatggtgc agtgagtgc gtcgtgaa 288

<210> 493
<211> 290
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700553912H1

<400> 493

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 gtcctccgac accatcgata acgtgaaagc ncagttcaag acaaggaagg gatccacact 180
 gaccagcaga gacttatctt tgcggtgaaa cagcttgagg atggtcgaac ccttgccgac 240
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<210> 494

<211> 291

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700553914H1

<400> 494

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 ccatagctaa ttgtgagaat ttcggtcncc tgttttattt ttttattttg cttttttcgg 180
 ttgccctctc tttaaatgct cctcctatt ttttttggtc tctctctcgt tttttgaaga 240
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<210> 495

<211> 299

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700553915H1

<400> 495

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 aaaaagcctc tcttatatct cattanntct ccgcttgcaa tcaccaaaagg caaaaaaat 180
 aaaggggtac gttaacgatg aagcgcgctt tctccgtcga caccgcggag gataacaaaa 240
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<210> 496
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<223> Clone ID: 700553916H1

<400> 496

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 tctctttggt ccagggccgg ttaacattcc ggaccagatc atccgggcca tgaacagaaa 180
 caatgaggac taccgttctc cagcaattcc agctatgaca aaaactttgc ttgaggatgt 240
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<210> 497
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 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700553918H1

<400> 497

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 cgtgccgccc attctggtgg ccatgctcaa caaggccgcc gctatcaagg gcaagtacga 180
 tancnacgtc ggtganattc ggtgcttccg gtggggctcc gttgagcaag gangttatag 240
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<210> 498
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 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700553919H1

<400> 498

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<400> 501

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actagcagat gctagaaaaa agaagagaaa gcgacatttc actcttgagc aagagcttgc 240
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<210> 502

<211> 283

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700553924H1

<400> 502

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cgaatcagaa gacagagata tctatcagga ctgaaaaagc aatttagaaa gagaaatccg 180
aagatggaag acttagaagc aaagatatca gattcaaaac cagatgactc aagtcctcta 240
aaactctact tgctcccttt tcttgctccg ggacacatga tcc 283

<210> 503

<211> 287

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700553925H1

<400> 503

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<212> nucleic acid
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<223> Clone ID: 700553935H1

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<210> 511
<211> 295
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700553936H1

<400> 511

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<210> 512
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<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700553937H1

<400> 512

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<210> 513
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 <213> Glycine max
 <223> Clone ID: 700553938H1
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<210> 514
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 <213> Glycine max
 <223> Clone ID: 700553939H1
 <400> 514

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<210> 515
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<212> nucleic acid
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 <223> Clone ID: 700553940H1
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<210> 516
 <211> 287
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700553941H1
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<210> 517
 <211> 286
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700553942H1
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<210> 518
<211> 288
<212> nucleic acid
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<223> Clone ID: 700553943H1

<400> 518

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<210> 519
<211> 287
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<213> Glycine max

<223> Clone ID: 700553944H1

<400> 519

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<210> 520
<211> 288
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<213> Glycine max

<223> Clone ID: 700553945H1

<400> 520

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<210> 521
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<213> Glycine max
<223> Clone ID: 700553947H1
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tacagcgcca acttcacgt gaatcacctc ccaaaaatct tcaccccgaga tcttgcccca 240
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<223> Clone ID: 700553949H1

<400> 523

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 ggggaagagg acgtaccggt ttatcgtttt taagatgagg agaagcagaa gcaagttatt 240
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<211> 294

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<223> Clone ID: 700553950H1

<400> 524

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 aagcagggtt atgtgattta ccgtgtncnt gnacgaaggg gtggccggaa gagaccagtt 240
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<212> nucleic acid

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<223> Clone ID: 700553951H1

<400> 525

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 <223> Clone ID: 700553957H1
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 cactccnaac tccaaaacca tcatcgtcaa tatggcacia gcacacgctc tattttctcc 240
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 caaacctctt ttcttctcca ataacaacca tctgcatttc aactctaata attgggcctg 240
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<210> 532
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 <223> Clone ID: 700553961H1

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 <213> Glycine max
 <223> Clone ID: 700553963H1
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 gtcaaatatt ctagctgaaa taactagtca aacacagtct ttgggaaaaa aactgaaaat 240
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 cgttggaggg gatttaagac acagctctct agcttttaca tatatgggaa gtacaaagac 240
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cttcagagga ttccattct gtcattgcct tccagaccta tgcagttgga agcagtggag 240
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<210> 537
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<212> nucleic acid
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<223> Clone ID: 700553966H1

<400> 537

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ccttcgctgc ttgcgagtna cgcggcgctg tgtatcgccg tcgcnagnnc ntgatcatct 240
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<210> 538
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<223> Clone ID: 700553967H1

<400> 538

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ttttggctga gagatcaagc aaaaatgagc gtggttggat ttgatttggg aatgagagct 240
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<210> 539
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<213> Glycine max

<223> Clone ID: 700553968H1

<400> 539

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 gcactctgct ggaacctttg acaagggcac gaagaccggt ggacccttcg gaaccatcaa 240
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<210> 540
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700553969H1
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<210> 541
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 <212> nucleic acid
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<210> 542
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<212> nucleic acid
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<223> Clone ID: 700553971H1

<400> 542

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 <212> nucleic acid
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<223> Clone ID: 700553972H1

<400> 543

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<210> 544
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 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700553974H1

<400> 544

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 aaccggatgg tgggtggtgct cggaatcgta ttgctgctca gctttgtgag agtggcggtt 240
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<210> 545
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 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700553976H1

<400> 545

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<210> 546

<211> 211

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700553977H1

<400> 546

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gcataagcct caagcgaacc taggggcaga tcagaagttc tcacttggtg ggtcgaaaac 180
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<210> 547

<211> 287

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700553978H1

<400> 547

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gcttctcaag aaaagcctcc tttcttggtg aggcagctgc tactccccct gtcaagcaag 180
gatcagacag acctttgtgg tttgcatcaa agcaaagtct ttcctacttg gatggcagcc 240
ttccgggtga ctatggattt gaccctctgg gactttcgga ccctgaa 287

<210> 548
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 <213> Glycine max

<223> Clone ID: 700553979H1

<400> 548

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 aagaaggact ggtacgatat caaggcccct tccgtctttc aggtcaagaa tgttggcaaa 180
 accctcgtct ctcgtacca ggaaccaag attgcttctg aaggactcaa acatagagtg 240
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 <213> Glycine max

<223> Clone ID: 700553980H1

<400> 549

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<210> 550
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 <212> nucleic acid
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<223> Clone ID: 700553981H1

<400> 550

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<210> 551
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<212> nucleic acid
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<223> Clone ID: 700553982H1

<400> 551

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anaccaactc acattaacct tcaatttccc aaacgggatc gtgttctctt tcagagagca 240
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<210> 552
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<213> Glycine max

<223> Clone ID: 700553983H1

<400> 552

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<210> 553
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<212> nucleic acid
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<223> Clone ID: 700553984H1

<400> 553

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<213> Glycine max
<223> Clone ID: 700553985H1
<400> 554

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ggatatcccc cagaccagca gaggtgatc ttcgccggca agcagctcga ggacggacgt 240
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<210> 555
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<223> Clone ID: 700553986H1
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<210> 556
<211> 285

<212> nucleic acid
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<223> Clone ID: 700553987H1

<400> 556

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<210> 557
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<223> Clone ID: 700553988H1

<400> 557

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<212> nucleic acid
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<223> Clone ID: 700553990H1

<400> 558

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<210> 559
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 <213> Glycine max
 <223> Clone ID: 700553991H1
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<210> 560
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 <223> Clone ID: 700553992H1
 <400> 560

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 cttccccacc caccgccgca ncaacgccgt ctttctgtcc agacgcagcc gcgccgccag 180
 ggtctccgcc atggccaagg agttgcactt caacaaagac ggcaccgcaa ttaggaagct 240
 ccagagcggg gtgaacaagc tcgcggatct ggttgggggc acgctt 286

<210> 561
 <211> 284
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700553993H1
 <400> 561

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<210> 562
 <211> 268
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700553994H1
 <400> 562

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 ccgcggctcc cgccctctcg tgctagtcgt ctccgcggg ctcgacgca agcccacggt 180
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<210> 563
 <211> 289
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700553995H1
 <400> 563

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 gaagctcatg tcgaaaccc ctcacacgt cctcgccctc gacgtctaca acgacaagat 180
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 caacatcanc acacgactct cgcctcgaag gcctcatcaa gatggcaga 289

<210> 564
 <211> 290
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700553996H1

<400> 564

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ctttctctaa ggcggcgatg aatacgaagt tgggtgcatgt gaaaacaaag ggaaaccaat 180
ggcttttatt caagtgagga caaaagaagt tcatagaatg gatntntnn gatcaatctt 240
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<210> 565

<211> 292

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554001H1

<400> 565

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agaagtagta coctacagtc aactacggcc tgttgatccat ctgtgtctgc ggcacctggt 180
cttgctcaac tgtgtagcct tgcatacatc aagattccaa acttgggaaga ggattttggc 240
caagaagcag ctgaatattt gagtgaatca tttaaacagt ggaaaagagt tc 292

<210> 566

<211> 286

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554002H1

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cttagaactc aacatcatat ccgcaaagga cataagaacg ttaacctctt ctccaagatg 180
gacgtatacg ccgtcggtac gctctccggc gaccctctcc accctcaggg cgccaccacc 240
cagtccacaa agacgcggca gcaaccccag tggaataccc gtgaaa 286

<210> 567
 <211> 98
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700554003H1

 <400> 567

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 <210> 568
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 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700554005H1

 <400> 568

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 gtgtgggtgtg aaaaagtgtg ttaatatgag taactggttg gggttctctc tgactccaca 180
 cttgaggatt gatgaagaat ttgagagaga gaaccaagag c 221

 <210> 569
 <211> 284
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700554006H1

 <400> 569

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 aggggcattc agatcctttc ttcagccaac tggtagatgc attgacagct agtggatact 180
 cataatcata aactagtat gtacttattc tacagttatc agatgagctt tcaantaatc 240
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<210> 570
 <211> 281
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700554007H1

 <400> 570

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 atgggaaagc ctgctccatt ttcttctctt aagtgtggac ttggactgct gttctcctta 180
 tatcatttgt atctgcatta ttttacccta cagcactggg tacaagtgcc agaacagcct 240
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<210> 571
 <211> 287
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700554008H1

 <400> 571

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 caatncccaa tctacgccag agctcgtgat ctcaagcatc ttttagatct gaagaaagca 120
 ggtgcaacgg atgccatttt ggaaaatgca agactagctt gcacctgggt tctaagttgc 180
 tgaaaggcct tgggtgtgatg tctgatgatg tggcattttt gagtcagctt attagagatt 240
 ccatggagct ccaagctcaa gaaggaatcg gccaatctgg atgatcg 287

<210> 572
 <211> 282
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700554009H1

 <400> 572

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 gaggaattgc ggaattatct ccgtotctgg gtcgtgaagc ctacctgcag aaaagggata 180

ttgtggagca acaagcagca ggcttgatga aagaagcaga gcggttcta atcttaagca 240
 atatcgatcg cctgtggaaa gaacatctgc agcataaant tg 282

<210> 573
 <211> 282
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554010H1
 <400> 573

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 ccactgggtca cctgatttac aagcttgggg cattgncaag cgtgttattg cgagggttga 180
 gnaggnagct gctgagatga acaagaggtc tttcaagtat gccgggtgct ggacaaactt 240
 aaggctgngc gtgnaagagg aatcaccatt gatattgctt tg 282

<210> 574
 <211> 280
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554012H1
 <400> 574

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 tctcactaac acaacaatgg gagacgagag aagggcaagc ctgctgcttc cggcgtgtgg 180
 tccaccatca agcctttcgt caatggtgga gcctccggca tgctcgccac ctgcgtcatc 240
 aaccatcga tatgatcaag gtgaggatca attgggcaag 280

<210> 575
 <211> 283
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554013H1
 <400> 575

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ggatgaagga caaaccttc gccaacctct gcatcagttg tgagatgcan cccaccacc 180
ccatcaggcc tcaccatcag agctggttcc tatgctgatg agctcgtaa gaccgcgaaa 240
acagtggctt caccaggag gggtnnttgg ccngggatga gtc 283

<210> 576
<211> 288
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700554015H1
<400> 576

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agcacaagaa ccagtgcctg acacctcagn cagangctga gaacagggtg caagtactac 180
attctaccag tcttcagagg cagagggtga ggcctaacag tttcaagcag tggcaacaac 240
acatgcccc tctttgtggt gcaagagaag cttgaagtct tcaaaggg 288

<210> 577
<211> 288
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700554017H1
<400> 577

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acacctgccg tgtttaaggt tacctgtgct aagacaaaat actcccatgc acatgcctgt 120
tatcatgatg gtcaaaccac aaatacagtt ctccaggga ctgatgaaca aacaataccc 180
gatgtgaggc tgaccaaact aagggatgga acaaatggca tggctatctt cacatttgat 240
caaccctcag ttttcgattc ttcgggtgaa ataggcgata tcatggga 288

<210> 578
<211> 237

<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554018H1

<400> 578

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atggttgctt cctttgtttc tcattagctg ttttggtttt tgtcttagtt ctacaccttt 120
cctcatntcc cgcagtagca actgcgaacc aatctctctg agaaaaaaaa aatggcgctg 180
aacgggaatg gcagcgttgc gaacgggaac gggaccgcta ggaacggact ggcgaag 237

<210> 579
<211> 263
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554019H1

<400> 579

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gattacattt tcctctagaa aaggccatgc atgatattgg taagttatct ccttaacata 120
cacatacant gcagtcaaac attattcttt gcatgacacg agcttcgcat ttatattttg 180
atgtgcaggc catgaggatg acttggtgat agagcttgcc aatgaagtga agaaagtact 240
tggagtggga aatgtagtac caa 263

<210> 580
<211> 280
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554021H1

<400> 580

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tcgctgcttg tatcaatcca aggcttccta tttctccaaa gcttctgctc tttcatctgg 120
ggcatgtggg tatggctctt tggcacagac ataagtgggtg gacaccttgc agctgggtgtg 180
gattctctct tcaaaaatgg agcagggttg ggtgcctgct ttcagataag atgcaagaac 240
ccaactctat gtagcaaaga aggtacaaaa gtggtatgac 280

<210> 581
 <211> 283
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700554023H1

 <400> 581

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 aacctgaatg ggtctggacc tggggtttcn ctcccagttc atccttcttt gggagcagct 180
 tgaagaaggt tattggctca aggtcccca acacaaagat ttctcttgga agcttcaaga 240
 tgttgctgta gaagagaaga aagagattga agagaccag cag 283

<210> 582
 <211> 286
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700554024H1

 <400> 582

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 atctgagagg caaagcgggtt gttggtgtgg ttccagaatg ataaggtgca tggctaacc 180
 cagaagagtt caaatggtgg ccaagcaaat taggagagag ctttctacat atgcttctgc 240
 accgataaag tcttgagta tgctgttctt cccgaagcct ccttag 286

<210> 583
 <211> 281
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700554026H1

 <400> 583

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tggcattggc ttacacagaag gttgaggatt cgctagagat aacccgaatt ggacgtctga 180
taactggaca acgaaatgaa agtgcataga aatggtttct accaggagtt caatcgagag 240
aatatggccg gaatctctac cagagaagga caacatcttc a 281

<210> 584
<211> 270
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554027H1

<400> 584

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gatggcgaaag ttggcgagg gtgacaagcg gtggatcgtg gctgagcgcc ccgacggctc 120
caacgtgcac aactggcatg ggccgagacc aactgcctcg agtgggccag aacctttttc 180
aacaacagtt tcaccaacgt cgccgtcggg gacggcgatg ccactgtcac gatcaagaag 240
gtggagaagc tcgaggcgaa gctatgtcaa 270

<210> 585
<211> 283
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554028H1

<400> 585

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tcattcaaaa ctttcacctt tctctctctt cacaaacggg gccggaaaag tccattcttt 120
ttctcaattc cccggcaaaa caaatgtacc cactttctag aacctcgccg tgtgccggaa 180
agttcactcc tttctcactt ttccgcagca atgtcaatct ctgcacggag ctttcatgaa 240
cacgcaactc tccaagcaca cttcgatctt cggcctccgt ctc 283

<210> 586
<211> 281
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554030H1

<400> 586

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 tgcattgcaga aactatgtgc agaaaaatat ctcttgattc actagagaag gcccaaaatc 180
 gtgtgataga tgctgcactc acacttggtc gagaaaatac aaggcttaag aaagaatcgt 240
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<210> 587

<211> 285

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554031H1

<400> 587

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 tntctctctgt ttctgacctt ccaatgttgn gtgtcactac atccaaaagg ggcgtgttac 180
 taaccgctcc gccctcgtct ttcgaggata tgatactctc ttttaaacac tctctttcta 240
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<210> 588

<211> 285

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554033H1

<400> 588

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 gtggtccaac caccgtaact ggatctcttg tggctttaag cctggtctcc atggtttcca 180
 tgtccatgcc ttgggggaca ctaccaatgg ttgcctctca actggatcac atttcaatcc 240
 taataacaag gaggaggtgc ncctgaggat gagaatcgtc agctg 285

caccctgngt tcttcggcaa ggtcggaaatg cgctatcttc acaagctccg caacaattct 240
gactctccga tcttacaaca tcgacaagct ctggtccttg gt 282

<210> 592
<211> 275
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554037H1

<400> 592

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aatcaagtgt ggaccgtctt atgaanagat tacaaatttc atgtctgata ttgctgatga 180
gttcaaaatt gttgttggtg aagcaataag atcatgtgct gaaattccct taaaatatag 240
atctctgatg aattcctaag taacatctta gggaa 275

<210> 593
<211> 276
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554038H1

<400> 593

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agcgatccgg caagatggag ctgccgagtg gactgatatt gtgaaaactg caagatttaa 180
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<210> 594
<211> 270
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554040H1

<400> 594

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 ttgcacttaa gtgccctcca ttgaagttgc tgttggtgat atctctaaat cccgcattgc 180
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<210> 595
 <211> 279
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554041H1
 <400> 595

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 cacttactct ctgtccaggt gggattggty anaagacccc ccttatggga gtttgagtag 180
 tttagccatt ttgaaatttg gacctcggtt tagaatttta ntancaatgt agcaatggna 240
 gaaagcagag cggnatgaga aaatgtgaca aaaagtcaa 279

<210> 596
 <211> 266
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554043H1
 <400> 596

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 ttcaatcact cccacctttg gaattcaagg gtttgagcaa ggaggaggaa gactcattgc 180
 tagggcaana tnaaatatgg aggtacatga catgcttcac ggactccgtg gccttgaaag 240
 ctgtcataga gcttcgtata gcggac 266

<210> 597
 <211> 278

<212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700554044H1

 <400> 597

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 tcatagaagt ggcagtgcaa gcttgtaaaa tccctttctc agggccgtcg aaggagtta 180
 cccagagcac cttcggaag atacaatcag cagaagtccc gtgaaatcac atggatcatag 240
 aattctcagt agaagccctg tgcagatcag tggatcata 278

<210> 598
 <211> 282
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700554049H1

 <400> 598

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 gaaggttatg cgagctctag gtgattacct tgggtgtcaag gttcatgctt gtgttgggtg 120
 gaccagtgtt cgtgaggatc agcgcattctc caagctgggtg tccatactgt tgttggcact 180
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 tttgttttgg atgaggctga tgaaatgctt tcagtgggtt ca 282

<210> 599
 <211> 281
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700554050H1

 <400> 599

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 acctaccctt cagtccaaac tttaaacaat attgcacctt tgaatctgct tccacaggca 180
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tgtcaaagct agagtcaaac tccatatgtg ttaaggccac a 281

<210> 600
<211> 270
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554053H1

<400> 600

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ctggctctgtt gatttctctg cgcttgtgtc aaccttgata nttccagaat gccagttgat 180
aacctttcac agaggagtca tcaaagaga tgccagccat tgaattcaga gagcactcag 240
gagaaatgtt gctggggaca gcagtatata 270

<210> 601
<211> 279
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554054H1

<400> 601

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gcggcaccta cttcaccgag aagagtgttc caacacaaca caacantngc caaaatgaca 120
atttcaccct ctctgacctt aacaccacca ccccgagaat caccgcaaca acccactt 180
cccacacttc ccacacttcc canccanct atntcaaant caatcctatt tccagacctt 240
cccctctacg cgcnttctntc cccctcacat cagcgcccc 279

<210> 602
<211> 278
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554055H1

<400> 602

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cgccatantc cgccgggcta gcagtgttcc tcgcaacgac gtcgngncgc cgacgcgcaa 120
 tcctgcaacg gcacccctctg ctcatagcct acaccggcgg cctgcgggtg ccgcccacg 180
 tctccgactc ggctaagcag ccgtaccggt tcgagtcgac ggtgagggtc tcaacaaggc 240
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<210> 603
 <211> 278
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554057H1
 <400> 603

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 cctgggttta caattcaaaa cactacaaga ctgatcgcat ttnccttgcc aacaatacat 120
 atcnncccaa gcnagacacc ggcncacttg tcaagtacag agaagaagaa ttgaagaatg 180
 taagagggga tggaactggt gagcgcaagg aatgggatag gatctatgat tatgatgtct 240
 acaatgactt gggcgatcca gataagggtg aaaagtat 278

<210> 604
 <211> 273
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554058H1
 <400> 604

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 agtccatggg cctgctatct tgttttaggt ctaccgtcct gagaaaatgt tccaaaggaa 120
 gctctggcat gtcaagattc cttatacgaa caattttcaa cgaaacttga tttcgtctgg 180
 tggcaatgaa tcgtattatg ggtattttta caggagatcc atacacttca ctttatatgg 240
 gaatggaatg tgggtgggat acaagtgcta gaa 273

<210> 605
 <211> 267
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700554059H1

<400> 605

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tttcaatcac tcccaccttt ggaattcaag ggtttgagca aggaggagga agactcattg 180
ctagggcaag tggaaatatg gaggtacatg acatgcttca cggactccgt ggccttgaaa 240
gctgtcatag agcttcgtat agcggac 267

<210> 606

<211> 278

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554060H1

<400> 606

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atcatagaag tggcagtga agcttgtaaa atccctttct cagggccgtc gaaggagttt 180
accagagca ccttcgcaa gatcaatgca gcagaattcc cgtggaaatc acatggtcat 240
agantctcat agaagcnctg tgagatcagt ggtcatag 278

<210> 607

<211> 271

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554061H1

<400> 607

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gggtgcagga gttggttgga agattaaggt ttggggtaga nntagtgaga ggaacaagag 180
gtgcatagtt ggtgctgggt ctggtgctgt tcttgcatac gccttgatgt ttctcaagta 240
atctattgat aagcagtggg tgttttggag g 271

<210> 608
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 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700554062H1

 <400> 608

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 acagccattc tggttggata caggcatatt gattgtgctc aagcgtataa caatcaagca 180
 gagattgggtt c 191

<210> 609
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 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700554065H1

 <400> 609

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 ggtttaaata aagaaataat ataattataa gaaatttata tattacttaa tatagaatat 180
 tgacgatgat gtatcatttc atctgtgtta gtttaattta cgttgtctgt at 232

<210> 610
 <211> 260
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700554067H1

 <400> 610

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 gctaagtcaa gatgccgtgg gtttccttgt ttgtggatca caaaagaaat tgtgttcgct 120
 tgggtgtgtt ttctgtgtga ttctgtaatt taattgctca ggtgtagtcc cattagggtg 180
 caaagcaact cttttcatta gctgttctcc ttccattcca aagctgttag ggggatgagg 240

atgtacttgc aataacaata

260

<210> 611

<211> 273

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554069H1

<400> 611

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ggctctggacc tgggggtttag ctcccagttc atccttcttt gggagcagct tgaagaaggt 180

tattggctca aggggtcccca acacaaagat ttcctctgga agcttcaaga ttgttgctgt 240

agaagagaag aaagagattg aagagaccca gca 273

<210> 612

<211> 275

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554070H1

<400> 612

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aaagtgaac cacaagcaag ctgaaagaga agctattcag tgattttgat tcagatcgtg 180

tctgtgtcta caaccatgta cagcggctcc agcgnacggc gaaagccatg gacgctccta 240

caaaatcaga ggaaantccg cctgcacctt ccatg 275

<210> 613

<211> 270

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554071H1

<400> 613

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tatcaagaac agctaccaaa ccattctacca gtgttggtgg caaggaaaaa cttagtgata 120
 agaaaagttt gcctcttcag catcatcaag tcattctata gggaatccct tctgaaagt 180
 gccaaagcttc ctttttacga tgtcaaacga tttgaatctt ccaaagtgt aatacgcccn 240
 tggagatgag aagagctgac acccagggct 270

<210> 614
 <211> 183
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554073H1
 <400> 614

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 tcc 183

<210> 615
 <211> 262
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554074H1
 <400> 615

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 gaagcttaag tttccatcac tgggtgctggg ggtttttatcg cgtcacacat agctcggcgc 180
 ctcaagacag aggggcatta cattatgctt ctgattggaa gaaaaatgag cacatgactg 240
 aggacatgtt ctgtgatgat tc 262

<210> 616
 <211> 271
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554075H1

<400> 616
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 cacatgctgc cgccaaagtt ccgtctttac cgtcagatgc tcttcttcgg gtagtggnga 180
 gnggccttgg aagaattcag atgctagact tgtgcttgaa gatggttcaa ttggagagca 240
 aaatcgnttg gtgcttcagg gaccaattg g 271

<210> 617
 <211> 270
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554076H1

<400> 617
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 cgacaaggag cgacccgagt tacatggccg aagcagttga atgctccact tgaggctcgtg 180
 gatcctgaga ttgctgatat tattgagctt gagaaagcta ggcaatggaa ggggctagan 240
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<210> 618
 <211> 256
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554077H1

<400> 618
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 gcctcgagat cgagctggcc gnggttgaga tgcccggcct catggcctgt ncggaccgag 180
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 cagaccgccc ttctca 256

<210> 619
 <211> 270
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700554078H1

 <400> 619

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 acatgggaaa acgaagcaag actattgctg tacaaagcat acaagtttag atacttcaca 180
 aggtacatgc aagattgagg cggcttaata catcgtcttt caccatactt cccatccttg 240
 gagtcatcac aaaattctgc ntggcggtac 270

<210> 620
 <211> 249
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700554080H1

 <400> 620

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 tggttctgga gctggagctt cagctcccag ttcagccttc tttgggacca gcttgaagaa 180
 ggttattgcc tcaagggtcc ccaacagcaa ggtttccggt ggaagcttca agattgttgc 240
 tgtagaaga 249

<210> 621
 <211> 276
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700554082H1

 <400> 621

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 tgtttgctca ccctcngaanaa aacaaaaaat tccagttttg gaacttcccc tgatctaaaa 120
 atctgaactt tttggcattt cnncaattat tttgaattct gtttctgggt ttttgttttc 180

gctaagtttg ttgatggaag tggatgcnt

269

<210> 625

<211> 272

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554087H1

<400> 625

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ccgaacgana anaaacctcc acgtggcgcg cgcaagaag cccctcaacg gcgacgacgt 120
ttccgtttac gctgagccct caaagccgaa gtttccgttt tggaaaataa taagcctctc 180
gacgacaacg atgccgcttt gaagttccta gagaagatag accgtcagtt tcaacagccc 240
gatttatggg aaggacccca gtgggactgg ct 272

<210> 626

<211> 271

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554088H1

<400> 626

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ggtcacaaga taaaggggaa cttggtgatt atgcgaaaga atgtgttgga tatcaacagc 120
attaccagtg ttaagggttc atcggaaccg gcattaacat cattggagga gtcgtcgaca 180
ccgttacngc tttggcgctc cacatctcca tccagctnca tagtgccacc aaggctgatg 240
gactgggaaa ggaaaagttg gaaagctaca a 271

<210> 627

<211> 270

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554089H1

<400> 627

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<223> Clone ID: 700554093H1

<400> 630

ggaggcactc cattgctgga tcaatagtgg gagatgatga aagccttgca agctctccat 60
ctattccaag ttacatgg 78

<210> 631

<211> 273

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554094H1

<400> 631

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ttcatgtggg aatatgttgc aacaactgag taccaggctt tctgctagct cttatgggga 120
agatgaactc atgagtccat tcaaacgctg tatattaaac aaccttcac aagtacttca 180
atttctggag atgacaatga tgcagaatgg gcagagtaca aaattaagga aaccaatatg 240
tttactgttg acaaatatca acaaataggc ttt 273

<210> 632

<211> 258

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554095H1

<400> 632

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gcacaactcn catggtanta gtagcactac tacttcacac actctctctc tgagtgcctc 120
acncacagat tctgtgatat atataccaat ggaggccctc aatgccttct ggcttgaccc 180
ctctatctgt gctctctgat gacaaaaaca acaagaataa acacccttct gtttctgtat 240
gcaaagtctc naattttc 258

<210> 633

<211> 271

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554096H1

<400> 633

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gagcncatcc tgtttctaata tgcaccaaag acattgggtgt ttatgttcca ataagaagg 120
ccttaaggac tgctcttaaa gcataattaa gaggaagggtg aaaagaggaa atggaattga 180
tgtaattgtg agaacatact caccttctca tttgaagggtg gatgggataa ggtggtactt 240
gtgcaagtct aagcctatgg agtggggggag a 271

<210> 634

<211> 292

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554101H1

<400> 634

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cccttgacgc atccactgct gctgcttccc ttggcatgtc aganatgctt ggaaacccca 120
tcaacctcag tgggtgccaca aggccagctc catctgcctc tagccotgcc tccctcaaga 180
ctgtggctct ttctccaaaa agaaggctgc acctccaaaa aaagctgcag tgctgctcct 240
gccaatgatg agcttgccaa gtggtatggt cctgacagaa ggatcttctt gc 292

<210> 635

<211> 296

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554102H1

<400> 635

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caaaccaatn tttaaaatga ggggggggctt gtggcaactt gggcaatcga tcactcgccg 120
tcttgcccat ggagataaga aggctgttgc tcgtcgatgt tttgcctcag aagctgagct 180
gaaaaagaca gtgtttcatg acttccatgt tgctcatggt gggaagatgg ttccatttgc 240
tggttgagc atgccaatcc aatacaagga ctcaatcagg actctaccat caatgg 296

gcccagcaga accactcccc acaaacta acagaaatgt ccctataacc tccgcaaata 180
 cctttctggg aaatccagga ggtaacttt gtgcaactct tgcaagagag ccgccaggga 240
 aggtgatgat gatgaaatct cagggatgct tggactaggt gtctcaattg tgctagg 297

<210> 639
 <211> 290
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554106H1
 <400> 639

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 catctgaaat agtgggaaca atgggtgttg ctttgactgt gtgctcaatt cctggtcaag 180
 ttgcatcaga tcgtttgggg ccaggaaaga tggaacttgg tcttgggaatt caggagaacc 240
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<210> 640
 <211> 234
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554107H1
 <400> 640

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 ggccatgggt gtggccattc gccagcaaa gaaccctttt tgcgtgaagg gtcgctcta 120
 ctgtgaccct tgccgtgctg gttttgagac ctcagcaacc acctacattg ccggtgctga 180
 gatatgttgc aatgcaagag caggtagca agaggttgtg tacaccaaga aggg 234

<210> 641
 <211> 297
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554108H1
 <400> 641

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gccaccgcca ccgccaccgt ctccaacaag gttctcgtcg ccgtcaaggc cgagaaggtc 120
atctctaaca ccgcattagc ctgggctctc actcatgtcg ctcaactccac cgactccatc 180
acgctcctcg ccgtttactc ttctcacaaa accggcagaa ggttctggaa tttttcgaga 240
ctggccggag actgtacgaa cggaccggcg ggaaagttgc cggagcaant tccgata 297

<210> 642
<211> 297
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554109H1

<400> 642

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aggagtttca accattgaac tattatgacc caaganacga gctattggat gataaattat 120
tctcccctgt acttgacat attcaaccag aatttcatta tcaagcaaac atcgaatcag 180
atgattggta tgggcttcaa tatggtacaa atgagacaaa catgtcagac tttttgaatt 240
cagttgtgaa ttgggatcaa gtatcctttg aggatctcaa ttgtcaacag cagagct 297

<210> 643
<211> 291
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554110H1

<400> 643

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cacagctggg caagaacgat ttaggacaat caccagtagc tactaccgtg gtgcccattg 120
gatcattatt gtttatgatg tgacagatga agagagcttc aataatgtga agcagtggct 180
cagtgaatt gatcgctatg caagtataa tgttaacaag cttttgggtg gcaacaagt 240
tgatctggaa gcaaatagag catgtcatat gaaacagcta ngcnttgcag a 291

<210> 644
<211> 290

<212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700554111H1

 <400> 644

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 atgctaaatg atatgtgcaa tgatcctaaa aatactgtgt tcattgtgag tggaagggga 120
 agagattctt taagtgattg gtttacttca tgcaaaatga ttggacttgc agccgaacac 180
 ggatactttc taaggtggag taaagatctg aatgggaaac cagtcccttg tctcctggat 240
 ctgattggaa aaagatgtgg aacctgtcag cattgtatac agaggcaacg 290

<210> 645
 <211> 296
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700554112H1

 <400> 645

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 tactcaattt tgcagaacan taccatcatca cgtgcatgca cccatcatcc ccacttccca 120
 ctcccttcc ttgtacactg tctcaccctc ccaccacgt ttcttctttc atgccaattt 180
 ctcancttct cccactccca tcttggaaga agaacttct tccaacaccc ccatcatcca 240
 tgttggtgat gttaactttg atgttcagca gcaatattcc aagccagaac ctgaga 296

<210> 646
 <211> 288
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700554113H1

 <400> 646

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 ttaatagcaa ctcttagttt ccaatgtcca agatgttggg agtgtttggt ggacttttgc 180
 tgttggtggg gttggctgcc tctgccaagt ttgatgaact cttccagccc agttgggcta 240

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288

<210> 647

<211> 232

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554115H1

<400> 647

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ttgtgtttct agacgacagc atatggcnaa atcatgtttt acctgcacag aagccatccn 180

ccctagcatc caaagctact tctgaggtgg atgaaacatt ggttnccagaa aa 232

<210> 648

<211> 292

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554116H1

<400> 648

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gcacaataag ctgcttcctt ttatactgat caaagaccaa ctcatcctaa caggctgcct 120

gaaacaaaag ccctttggct tgaagtgtat tcaacgcaca ggccattata ccttgtgcct 180

aatttaattt agaggaatga attaattgatt gactcctatc aacttaatca tgatctaata 240

cctgtgaaag acaaattgaa cctagaagct atgttagttg aagtcaaag ag 292

<210> 649

<211> 297

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554117H1

<400> 649

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cctgggcca ttctctggcg agccccgtc ctacctaacc ggtgagttcc caggcgacta 120

cggtctgggac actgctgggc tttccgcaga cccagaaacc ttcgccaaga accgtgaact 180
 cgaagtgatc cactccaggt gggccatgct cggagccttg ggctgctgtc tcccggagtt 240
 gctgtcccgc aacgggggtga agttcggaga agccgtgtgg ttcaaggccg ggtccca 297

<210> 650
 <211> 296
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554118H1
 <400> 650

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 cttgggcccc ttctctggcg agccccctc ctacctaacc ggtgagttcc caggcgacta 120
 cggtctgggac actgctgggc tttccgcaga cccagaaacc ttcgccaaga accgtgaact 180
 cgaagtgatc cactccaggt gggccatgct cggagccttg ggctgctgtc tcccggagtt 240
 gctgtcccgc aacgggggtga agttcgggag aagccgtgtg gntcaaggcc ggggtcc 296

<210> 651
 <211> 294
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554119H1
 <400> 651

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 aagacctttt cctcccaatt gcagagtcaa agtttaaggc ctaagttctc tcaactctca 120
 ttcaaccacac ttccaccatc aacttcttcn ttttcttcac cccgtacatt cacaaccctg 180
 gctctcttca aatctaagac aaaagccgct cctgctaaga ctaagggtac aaagccaaag 240
 caaaagggtg aagatggtat ctttggcact tctggaggat tggttttact aagc 294

<210> 652
 <211> 234
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554120H1

Table 1. Demographic characteristics of the study population	
Age (years)	Mean (SD)
Male	55.2 (10.5)
Female	56.8 (11.2)
Marital status	
Married	78.5%
Single	21.5%
Education level	
High school or above	65.2%
Below high school	34.8%
Occupation	
Professional	12.3%
Managerial	18.7%
Technical	25.4%
Service	32.1%
Unemployed	11.5%
Income (USD/month)	
< 1000	15.6%
1000-2000	28.9%
2000-3000	35.2%
> 3000	20.3%
Health insurance	
Yes	89.1%
No	10.9%
Comorbidities	
Hypertension	45.3%
Diabetes	22.7%
Cholesterol	38.9%
Smoking status	
Current smoker	18.4%
Former smoker	25.6%
Non-smoker	56.0%

<210>	653
<211>	290
<212>	nucleic acid
<213>	Glycine max

<400> 653

<210>	654
<211>	288
<212>	nucleic acid
<213>	Glycine max

<400> 654

<210>	655
<211>	293

<212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554124H1
 <400> 655
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 gatatacgac acaacatcgc aattttctcgc gggtcgtttt gataactggc gaaatcgcac 120
 gataccgaca gcgtcgtgcg gtaatacgac acatttggtg tttgatcatg ttagccaaga 180
 gattaagctc tttcttcaaa ctctccccaa aacctcagat ttccacttcc atgaagaaag 240
 tggatgaaga gactgggcaa atactatggt agaaaggctg tgtcattgtc tga 293

<210> 656
 <211> 252
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554125H1
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 cctgctatcg gaatcgatct cggaaccacc tactcttgcg tcggtgtgtg gcaacatgac 120
 cgcgttgaaa tcatcgccaa cgaccaaggg aacagaacca cgccgtotta cgtcggattc 180
 actgacaccg agcgtctcat cggatgatgcg gccagaatc aagtcgccat gaaccccatc 240
 aacaccgtct tc 252

<210> 657
 <211> 297
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554126H1
 <400> 657
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 tgtcttgact gatgcattcg atggaaatat tttgagcctt gagtttgata attttgctga 120
 agtgcacaaa ctctatgaag gtggagttac actacctaca aactttctta gcaagatcgc 180
 ccctatacca gtgatcaagg aaatttttcg aactgatggc gaacagttcc tcaagtatcc 240

accaccta aa gtgnatggca ggtggataag tctgcatgga tgactggatg aagaatt 297

<210> 658
<211> 286
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554127H1

<400> 658

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tttttagtag ctccagaagt tgtgattcag atgatactct gtcccagact tcaactgatg 120
agaaaaattc tcttataaac aaggatgaga atgaaactag caagaccctt gtgggtttatt 180
cagaacaatg ctctattggg agggatatta attctactcg agttgccatc ttgagagata 240
gggaaaagat cgcattggatc cagatagatc gtactagaaa gtagct 286

<210> 659
<211> 286
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554129H1

<400> 659

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ggttctctat gtccacagtg gagttctacg tagaagcaga tggtagtggt gggtttgtga 120
gaacaagagg agtgcagctt atgctgaatg ggagccccta ctatgcta atggcttaatgc 180
ctattggcta atgtatctgc ctctgcatcc ttctcagaga aacaaatctc atcagtgttt 240
caacaggctt caaatcaggc ctcaacatgc cagaactggg cttcag 286

<210> 660
<211> 290
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554130H1

<400> 660

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agccaaacca gcccttcagg caaatgggaa aggcttctct gaattctctg gcctccgaag 120
ctcatcaggc ttccttcctt tttctagaaa atcttcagag gatttccatt ctgtcatgcc 180
tccagacctt tgcagttgnc aagcagtggg ggatacaaga aggtgtggac agaagcaaaa 240
ctgaagggtg ccataaaggg nttggaagga ttggaangaa ttcttgagtg 290

<210> 661
<211> 297
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700554131H1
<400> 661

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atgagtatga ttacagccct gatgaaccca tcatcagcaa tgcattctgc accactaact 180
gccttgcaac ctttgtcaag gtccttgatc agaaattcgg tatcatcaag ggcaccatgg 240
accaccactt cactccttac accggcggac caaaggcttc tcgacgcgag ccaccgt 297

<210> 662
<211> 297
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700554133H1
<400> 662

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actcagcgcc tctcgctctc gccggatcct atcaagggtt ctctccccga cggcagcgct 120
aaggaggcga agaagtggca tacgacgccg cttgatgttg cgcgtgaaat ctgaagaat 180
ttggccaaca gcgcgctcat cgcgaaggtc aatggcgtgc tctgggacat gactcgccct 240
ctcgaggacg attgccagct ccagatcttc aagttcgacg acgacgaagg ccgcgac 297

<210> 663
<211> 295
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554134H1

<400> 663

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acaaatcagc aatgagagag aatctgttga ggcagggata cagaattggt ggaatcattg 180
gagaccaatg gagcgatctg cttggagacc acagaggcga aagcaggacc tttaagcttc 240
ctaattcccat gtactacatt gagtagtacc ttcacctctc tcaacaatct agcta 295

<210> 664

<211> 291

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554135H1

<400> 664

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ctgagactcc cgtccgagag cgaggagatc tcgcgcgact actgcgacag ctggatgctg 180
gcggtggaga cgaacaacgc cgggacgtgg aaccgcgtgc cggcgagttg cgtggacttc 240
gtggcggaat acatcaccgg agatcgggtac cggcgggact gcgacgtgat c 291

<210> 665

<211> 293

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554136H1

<400> 665

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acggggtaat agaataactc tcannaagga cttcaatgga agatatctct actcaccttg 120
gagactttca tcattgaaca ataaggcatc agangcantt tccataaagt cttccttnga 180
gcaaaggcaa caacaagaag ggagaagggg gtttctaaaa ctgttgcttg ganatgtggg 240
anttggtttg cctgcactat tggcangtgg cgaagcttat nctgatgaac ang 293

tctcagcatt gacggcggag gaaccaccgc cattgtcgcc ggcgcttccc tcgtccacct 180
 cgaggaccag atccgcgccc aaacctccga tcttcacgcg caaatncact gattactttg 240
 gacatcatcg ccggcaccgg cattggcgcc atcctcgccg tcatgatcac cgccga 296

<210> 669
 <211> 292
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554141H1
 <400> 669

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 aaatggatca ggaaaattag atgaattcca atttttctnt ttttgaaaat tcttttttgt 120
 ggtaatttg gtaggttttag atacactagt tgcgactttt gtctttccag ttttgaattt 180
 ttngactttg atatgaaata aatcatatac tttgnngtg ctcatggtgc caaggaaaat 240
 tagtctatcc ttttcggcgg gccacttcgt aaaaaaactt tggtagattt ag 292

<210> 670
 <211> 290
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554142H1
 <400> 670

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 agatgccgca atgctccaat ggaaggtggt tccttcacca tcgaagactt cactgctgct 120
 cttgacaagt acgacttcga ttctgaagtt ggcggcaaga ttaaaggcac tgtgttctac 180
 acagataaca atggagcagt tggtgatatc actggcaaat cttcgggcat attgccactg 240
 gcaagaggcg tgcattccaca ggtaagcag ttgaagaagc aggcttattc 290

<210> 671
 <211> 276
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554143H1

<400> 671

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gcgcaattcc agagaggccc cagaatacag aaaccagcgg aagtgcactc taattgacac 120
aaccaatgcg caattagtat gtgatcctca cttgttcattg ttgccatgac cattgattgg 180
cactacttaa gaggggtctat gctgcagtgc atctgtcgtg aaacacactc ctggcccgt 240
ggaatctgtt cttcattcat gcatcggtg caagat 276

<210> 672

<211> 288

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554145H1

<400> 672

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atgaacatgg cgatcgtgct tctgttcattg gttttcgcag tttcatcagc tttagacatg 120
tcaataatat cacatgacaa cgctcatgcg gatagggcca cgaggcgac cgacgacgag 180
gtgatgtcaa tgttcgagga gtggctggtg aaacacgaca aggtgtacaa cgcgctcgtt 240
gagaaggaga agagtttcaa atctttcaag aacaatctgc gcttatcg 288

<210> 673

<211> 290

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554146H1

<400> 673

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cctcggcgtc cgaattgtag tctggagang cgtcctcagt ggcggaccgg gcccaagtcc 120
cctggaaggg ggcgccagan aggggtgagag ccccgctcgtg cccggaccct gtccgcacca 180
cgaggcgctg tcggcgagtt cgggttgttt gggaatgcag ccccaatcgg gcggtaaatt 240
ccgtccaagg ctaaatactg gcgagagacg atagcgaaca agtacgcgag 290

<210> 674
 <211> 289
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700554147H1

<400> 674

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 attgatgaag atagtctttt gactgaggaa gatttaaaga aaccccagct tccacctggg 180
 gattgtgaaa ttgggagcac aagaaaagcc tggcaaaaat tgcacctgtg ggagggctga 240
 agaagaggag aaagtatgaa gttaggatgg acaacagaac agattgata 289

<210> 675
 <211> 289
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700554148H1

<400> 675

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 cactgaagct gagagcaaca tgaatgacct tgtgtctgag taccagcaat accaagatgc 120
 aactgctgat gacgagggt atgagtatga agatgaggaa gaanctcagg aagatgaggc 180
 ttaaaacagt gtagtagtgt tttgcagggt gttctgtttg tgtgttttgt tgtgatactc 240
 tgtttaacgt tgtgtttttt ttcacatccc ctggacctga atacttttt 289

<210> 676
 <211> 157
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700554149H1

<400> 676

gcatacccca tgacttattg gacactgtgg agaggttgac caaagagcac tacaggaaat 60
 gcatggaaga gaggttcaag gaatttatgg caagcaaagg tctagatgct gtccaaactg 120
 aggtcaagga catggattgg gagagcacct tccacac 157

<210> 677
 <211> 290
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700554150H1

 <400> 677

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 cattccttta ctacgcggct gaaggagcca aggttagttt caataacaag tgctcataca 120
 cggtatggcc aggaacccta accggtgacc aaaagcccca attatcaaca actgggttctg 180
 agttgggtcc aggagcatcc aactctgtgg accttccatc tccatgggtcc ggtcgggttct 240
 gggcccgaac aggatgctcc aacaacaacg gaaggttcag ctgcgccacc 290

<210> 678
 <211> 249
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700554151H1

 <400> 678

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 ccggaacatg cctgggtgtg gaccgggttc gtctctggac cggaccgga cctccgtggt 180
 caacgggctc aagaagaagc tgaaggatgc tatggagatt ttaacgagat tcgccagctt 240
 gtgtcctcg 249

<210> 679
 <211> 283
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700554152H1

 <400> 679

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 ttccgccact tcgaaccggt ttccaaatgc agcaccgaaa accggtttaa ccaaaccgtg 120

gcctcggact tggacggcac cctcctggtg tcccctagcg cctttcctta ctacatgctc 180
 gtcgccatcg aagccggcag cttcctccgt ggccttgtec tccttggate cgtccctttc 240
 gtgtacttca cgtacatatt cttctccgag acccgggcca tca 283

<210> 680
 <211> 148
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554153H1
 <400> 680

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 tccgtaaccg taacgttaac gtcacgtca tcgtcatcgt cgtttatccc aaaacgatgg 120
 acttcaccac ttctgcaaatt tccatata 148

<210> 681
 <211> 256
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554154H1
 <400> 681

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 cgncgaaggt ggccggcgag gcattcgtat caatggctgg ttgatcgaga ctccggaggca 120
 ctccatactg aactcttcca cattccaaga gtgggtcaaca gaaactcgat acgtctncat 180
 ttaccagaaa tgggttttgg ggaaaacact tgatctaaaa cacttgagca gtggaaccaa 240
 catcatttaa tgcatt 256

<210> 682
 <211> 288
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554155H1
 <400> 682

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ctgcctccgt ctccactgtc ggagctgtca acagagctct tttgaacctg aatgggtctg 120
gacctgggggt ttcagctccc agttcatcct tctttgggag cagcttgaag aaggttattg 180
gctcaagggt ccccaacaca aagatttcct ctggaagctt caagattggt gctgtagaag 240
agaagaaaga gattgaagag acccagcaga ccgncaggga cagatggc 288

<210> 683
<211> 288
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700554156H1
<400> 683

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gcagcagcct cggcctcatc caccatgata tcaacaccag ccttatctcc aagcacaagc 120
atccaaaagc accatcattt gaagccatcc aacgtgtgct ttcaaggcct tagaccctc 180
acaagggttca caaccaaagt gagcagcacc accaaaaggg ttattccaaa ggtggtgtcg 240
gtgttagagc tgaatcaact cagcacttgt cataagcctc agcatggg 288

<210> 684
<211> 290
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700554157H1
<400> 684

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ccacaacaca ggccaaatct ctccaccatt caagcagaag gaattcccat aattgatctc 120
tctccaataa ccaaccacac agtttcagac ccttctgcaa ttgaaagctt ggtgaaggag 180
ataggacgtg catgccagga gtggggcttc ttccaagtaa caaacatgg agtgccactc 240
actctaaggc aaaacattga gaaagcctca aaatgttctt tgctcagact 290

<210> 685
<211> 237
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554158H1

<400> 685

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 ttattaattt ttccattcag ctggtgaata tactcccaaa accatgttac agaagcaaca 120
 acaaggacac acatggaagg gatgtgcacg gggagagtga aacactgagg atgctaagtc 180
 aaaccacact tcattctccag cttcaagaa atggcaacaa agatagggtcc tacagtc 237

<210> 686

<211> 285

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554159H1

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 ctccgcatgc caaacctcaa cacagacgat ctaagagtgc ttctgaaagg aacctggcaa 120
 acgcaagang tgggtggagcc tcgcatccac tcgagaaaga ccacaatgaa tcccttgttt 180
 caacatcttc ggtgagtgtc ctaggttacg gagtccgttg catgacaatc tcaactcgtgt 240
 anacaagaat acctcttcaa atcatagagc attcttagaa aaaga 285

<210> 687

<211> 276

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554160H1

<400> 687

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 tactcaatgc aaacaaaggg aaaaaggaga gaattggtag actttagaaa tgcattgcaa 180
 cagcagagat gatgttaaag tggcttagct ggtgatatat gctctgcagt ttgaaagata 240
 ctattacagt gaaacatgtg tgacccggat atccat 276

<210> 688
 <211> 284
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700554161H1

<400> 688

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 gcaggcccgg ttcgggtttg gcaagaagaa agccgccgcc ccgaagaaag tttccagggg 180
 gtcgggctct agctccgata ggcccctgtg gtatccgna cgccaagcgc cgagtacctg 240
 gatgggagcc ttgtcggaga ttacggatcg acccattggg ctag 284

<210> 689
 <211> 260
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700554162H1

<400> 689

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 aacaccaacc ccaagttccc cactatcctc caaaactaca tccgaaacgc gcgtttcaac 180
 acctcctcga cgcgaaaacc atactcatcg tcatccccag caagaatcac agtccagggc 240
 acagtaatct gcggccaaag 260

<210> 690
 <211> 285
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700554164H1

<400> 690

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 aggcaaagct gggcatcatg ctccagtttt cgagagatat cagcagaagg ctgaatcttt 180

catgtgttcg tgcctggaaa gggatgatcg aatgttcaga agactccggg tggcctcatc 240
ttccgccaga gcatggaaca acatgcattt gtcacaatgc ctent 285

<210> 691
<211> 289
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554165H1

<400> 691

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tcggacaatc actccaccaa tcaaacaacg gcagctactc ttgttcgtcg ccggagactg 120
caaaactctc taaccttccg accactccga aagccgttca ccccgacgag gaagtgaaca 180
cattagcatc ggctcatcct aagaaacgtg cggggcgctcg aatttttaag gagacaaggc 240
atcccgtgta cagaggagtg cggcggagga acaacaacaa gtgggtctg 289

<210> 692
<211> 285
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554166H1

<400> 692

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aagcactctc caccttccat ttctccatct tttggcttga ggagtctgaa atcaagctct 120
ttatttgag aatcgctaag agtggcctcc aaatcaacaa taaaggtttc aaagacaaag 180
aatacttcac tcgtgaccag atgtgaaatt ggtgacagtc tcgaagaatt cctcacaaaa 240
gcaacaccag ataaggggtt gatcagttgt tgggtgtccag ggaga 285

<210> 693
<211> 283
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554167H1

<400> 693

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ccatggctgc ctccgtctcc actgtcggag ctgtcaacag agctcttttg aacctgaatg 120
ggctcggacc tgggggtttca gctcccagtt catccttctt tgggagcagc ttgaagaagg 180
ttattggctc aagggtcccc aacacaaaga ttcctctgga agctcaagat gttgctgtag 240
aagagaagaa agagatgaag agaccagca gaccgacaag aca 283

<210> 694
<211> 282
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554168H1

<400> 694

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aggcaaagct gggcatcatg ctccagtttt cgagagatat cagcagaagg ctgaatcttt 180
catgtgttog tgcttgaaa ggtgatcgca agttcagaag actccgggtg gcctcatctt 240
ccgccagaga ggaacaacat gcatttgtca caatgcctca tt 282

<210> 695
<211> 287
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554169H1

<400> 695

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tctccacacc aagttcccag aagaatggat cactcttggg aagcacaaaa gcttcttttc 120
ttagtgggag gaaactgaag gtgaacaact ttacagcacc agttggagca cgatccagca 180
ctacagtttg cgcagttgct gagcctgata ggctctgtg gttcccaggg cagcaccctt 240
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<210> 696
<211> 284

<212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554171H1
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 tggggatcag ttcacaaagg acgacatcaa agtgtatggg gctgttttgg agaagccagg 180
 tgactctttt cccaatgctg ccaagtggta cgaggttgtc tcattctcagc ttgctgcaag 240
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<210> 697
 <211> 287
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554172H1
 <400> 697
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 agtttggggg gggatctaca tctctatggg attatcactt tccttactct catcagcctg 180
 ggaagaaatc gttagacatt cactatcttg tctgtctttg aacttcactt ttggttccaa 240
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<210> 698
 <211> 283
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554174H1
 <400> 698
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 ttgaaaacga aaacggagac ctaaacgacg ccgttcttgt tccaccccct aacttctcca 120
 tggtcgagga ctgcattttc cgatccggcc tccccaaccc ttccaatttc ccctttctcc 180
 aaaccctaaa ccttcgttcc atcatatacc tgtgcctga gccttatccg gaagaaaatc 240

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283

<210> 699

<211> 283

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554175H1

<400> 699

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gcggcggcga cggcaacggc aacagttctc gcaccaccgt cggttttctt cggaagaccc 120

tccgtactcg ccttccgttc caatcttcgc ttctccacta agttaagcac ttctgtagct 180

atctccaagc atgggtcatgg gagacactgt gttggaacta gaagggggtt tgtagttaga 240

gctgcatcat ttacaccaga gtcacccgaa ccgagttcca aga 283

<210> 700

<211> 222

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554176H1

<400> 700

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aaaccgcgtt atattatttg tttctatata tctttgtgtt gtcacccgat tatntggata 180

gtaataattt cacctttaat gtgtcaacgg attattggat gg 222

<210> 701

<211> 199

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554177H1

<400> 701

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actctagat ttcantgttc cttcattttg tatccaatgc caaggtgtgt aattataaag 120

gttttgaaat atacttcata atntctaaat catttcaaan cttaaatagt tattttatca 180
tgaattcttt taaaaaaaaa 199

<210> 702
<211> 279
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554178H1

<400> 702

caaaacccgt gtctgtgttt gtttccactt tgcaaatcag tgtgtacca ggaatctctt 60
gattgagaaa gtgtgttagg gtaagagttg tgtcgtgtcc acgagacact gggagaaaga 120
aagtgtgtgt gagttgttgt aaactgaatt ttcatttttc tttagccatg agcacacttg 180
ttcgcaacac caccctcacc ttcagccgca gaaacagata cgagctcttg gtttgcagggc 240
aaagacaaga ggtcaagtcc atcagctnac agacgcaga 279

<210> 703
<211> 239
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554179H1

<400> 703

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catttttcta atgatttgag catacccgca actcttagtt cttgaatagc acatttatat 120
gtattttttt tcactttatt ttctgtacgg gcaactcaat gctctaagaa cttcaaagca 180
ttgtactagg aagaagctcg ttatactaca tatgagtttc tccttgattc ctcatttaa 239

<210> 704
<211> 250
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554180H1

<400> 704

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cgaccacctt tgccaaacca gatgaaaact ggtcgtggaa gtagttccag tcttatcaga 120
catggtagct cacctgctgg attgttttca aacattaaca ttgatactgg ctatgctgct 180
gttagaggca gggaactatg ggagctgctg ctgctaataa caccaccgag gaagcaaact 240
tttcaccgcg 250

<210> 705
<211> 276
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700554181H1
<400> 705

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tcggcaaacg gacggcgggc gcacgcgtcg cttctagccc ggattctgac ttagaggcgt 180
tcagtcataa tccaacgcac ggtagcttcg cgccactggc ttttcaacca agcgcgatga 240
ccaattgtgc gaatcaaggt tcctctcgta ctagg 276

<210> 706
<211> 283
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700554182H1
<400> 706

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gtttccttgg caaaatggag gatcttaaag agactgcatg ataggaatga gactttgtac 120
tacagagttc ttattgataa tattaaagag tttgctccaa taatatatac tcctacagtt 180
ggattagtgt gtcaaaatta ttcagggtta tttaggcgtc cacgtggaat gtatttagtg 240
ccaaagataa aggagagatg atgtcaatga tctataactg gcc 283

<210> 707
<211> 284
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554183H1

<400> 707

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 agtcagttcc catttaaaaa caaagactcc ctctaaccct tgnnnnnnnn nnnnnnnnng 180
 catttttcac tcttncgtaa ttttacattg atatataatt atgcaaccct gtagcagaga 240
 aatgcaaggc ctcaactccc tcttaaatct tcttcccaaa tctc 284

<210> 708

<211> 280

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554184H1

<400> 708

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 gtttgtgttt gggttcatca tcggagcaat taaattcacg agaatgcgag aatctcggtt 120
 tcatcggact cgccttgtgc tccgactgca acactctctc cgagtacgac aaggacaaaag 180
 tgattatttg aatcgtctaa atcaatatcg ccagagagtt tggactgtaa aattactgga 240
 aaatctggct gactatgaag aggctctggt gttagagaag 280

<210> 709

<211> 284

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554185H1

<400> 709

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 ggagagttca gataccatag ataatgtaaa gtccaagatt caagacaagg aagggatccc 180
 accagaccag ggccgtctca ttttgctgg caagcagctt gaggatggac gtacacttgc 240
 tgatacaaca tccaaaagga gtccactctt cacttggtgc tcgg 284

<210> 710
 <211> 275
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700554186H1

<400> 710

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 gtcctaataga acctgaagtt gaagaagtta gatgtgtgcg agatgatctc acagaaagtt 120
 gtgagacttc tgatctgtta ctactgtaaa gtcaaaatat tcaaaagatt catttcaggt 180
 ttggaatata caaccctgtg atagaggtat gttagctaga ggtgtagctg ttggggcatc 240
 tctgtggntn tcacatctgt tgatcctgaa caagt 275

<210> 711
 <211> 222
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700554187H1

<400> 711

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 ttcactctgc caacgaacac acccttaagc acgatagggt ccttctcact ggtgttaaac 120
 tcgcagcttc tgccatgctt cgttcacac aaactacctc tgattcaaac tcaaccctt 180
 ctcttcttaa cgtttcacat caaactactc cacttccatc tt 222

<210> 712
 <211> 284
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700554189H1

<400> 712

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 ctggagcttc agtcccagt tcagccttct ttgggaccag cttgaagaag gttattgcct 180

aggcccatgc ttattgatga ccaagcaaac tgctcaaag cagttcttct tggctttggc 60
 attgttgacc aatgcactaa gcgatgatga attataaatt tactaatgtc tgagactgcc 120
 gaagcagggga tagatggagc aaatttatct ttgttatcag acttgatgaa attgcagttg 180
 tcaggcattg atgaaactca gcaaccattg tcattcttta tctaccaaac tagcaaattc 240
 aacatcctga agccttgctg tatttggtca aggttcag 278

<210> 716
 <211> 279
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554194H1
 <400> 716

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 tacgacaagg agcgaccgg agttacatgg ccgaagcagt tgaatgctcc acttgaggtc 180
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 gaatgatacc gtcagagaat ttcacctctg tgtctgtga 279

<210> 717
 <211> 192
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554195H1
 <400> 717

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 actctagtat ttcatgttc cttcattttg tatccaatgc caaggtgtgt aattataaag 120
 gttttgaaat atacttcata atatctaaat natttcaaaa cttaaataaa ttattttatc 180
 atgaattctt tt 192

<210> 718
 <211> 296
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700554201H1

<400> 718

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 cctccacag ctttcttgt cttcttgat gattttagaa aatctttcaa agaagcta 120
 cctgattcta aggatgttaa aagggttgg aaagaggctg gtgaaaantg gaggtctatg 180
 actgatgaag agaagaagcc atatcttgac aaagttgctg agcttaagga agagtacgag 240
 aaggctatgg gaaagctnga agctgggtcca gatgaagaag atcaaactgt gtctga 296

<210> 719

<211> 221

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554203H1

<400> 719

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 gtccanacca atttgtctga tgggtcacc aacaagtctg tgccagcatc tggacttgat 120
 gcagtgattc ctagtgc aaa tcagcttacc atcttctata atgggagtgt ttgtgtctat 180
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<210> 720

<211> 281

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554204H1

<400> 720

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 aatcnatttg ggaacgatta ctcttgcntc ggcgtgtggc aacacgatcg tnttgaaatc 180
 atagccaacg atcagggtaa cagaactacc ccatoctacg tggcttcacc gacacagaan 240
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<210> 721
 <211> 288
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700554205H1

<400> 721

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 tgggtgcccg actccggagg tgaaatgcgc aagttggagg cttgctgtgg aagcacacaa 180
 catctttggc tttgagacca ttcctgaaga gtgcgttgaa gcaacaaagg aatacatcca 240
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<210> 722
 <211> 292
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700554206H1

<400> 722

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 agcttttagac atgtcaataa tatcacatga caacgctcat gcggataggg ccacgangcn 180
 gcccgcgcgc gaggtgatgt caatgttcga ggagtggctg gtgaaacacg acaagggtga 240
 caacgcgctc ggtgagaagg agaagagggt tcaaattctc nnnnncnatc tg 292

<210> 723
 <211> 286
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700554207H1

<400> 723

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 cacggacgat aaaggggagg cgtgctccac catcatgtaa agaganacaa aatgttgagg 120
 aggggcaagt gatttgntat attgaacagc ttggtggtga gctgccatt gagtctgat 180

tgctgggaga ggtcatcaag atcctacaaa aggacggcga tcctgttgga tatggtgacg 240
cacttgttgc aatatgccat cattcctgga ataaagaagc ttcaat 286

<210> 724
<211> 293
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554209H1

<400> 724

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ccacagcttt ctttgtcttc ttggatgatt ttagaaaatc tttcaaagaa gctaatacctg 120
attctaagga tgttaaaagg gttggtaaag angctggtga aaantggagg tctatgactg 180
atgaagagaa gaagccatat tcttgacaaa gttgctgagc taaggaagag tacgagangg 240
ctatggaaag ctagnagctg gttcaagatg aagaagatca aactgtgtct gga 293

<210> 725
<211> 296
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554210H1

<400> 725

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caccggcggc aagaaattct tcaagcgctc cgagatccag cagaaggaaa tccaaaaact 180
ccgccagcaa gagaagcgcg aattggaagc caagtctact aaagcgctn cgcaacatcc 240
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<210> 726
<211> 292
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554211H1

<400> 726

<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554214H1

<400> 729

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gcgacactta aggttcctca gcctcttccc cccgttgacg atgattgtga gcagctccga 120
aaagccttct caggttgagg aactaacgag gagctgattg tatcgatctt ggctcatagg 180
aatgctgctc agagganact atcagagaaa cttatgcccga gacctatgga gaagatctcc 240
tcaaggcctt ggacaaagaa ctcacgagtg attttgagag gctgggtcac 290

<210> 730
<211> 197
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554215H1

<400> 730

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atgaatcagg agctcacctc tattacaact gtcccagtg aaactatctt gaatatcagg 120
ctttgctatt ggggtctgct ctcaagctgc taagacatat ttggaagcag tttgagantt 180
cgtgggttct cgagaga 197

<210> 731
<211> 291
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554216H1

<400> 731

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cagggccggt nttcaggtcg gaaacgcctg ctgggagctc tactgcctcg nacacggcat 120
tcagcctgat gggcagatgc caagtataaa gactgttggt ggaggtgatg atgcttcaac 180
accttcttca gtgaaactgg ggctggaaaag cacgtgcctc gtgcgatttt gtagatctcg 240
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<210> 732
 <211> 263
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554217H1
 <400> 732
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 gtgtttgaca cggggatgga tccaggcttc ttagaggtgt tggagaagca ccctgaaaac 180
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 cttggcacct ggtacacctg caa 263

<210> 733
 <211> 273
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554218H1
 <400> 733
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 agagacagtc tcaccgatga ccatagaggg tgaaattggt gcaaatgcac cattctatgt 240
 gattcatcta aactacacaa anatcgtcat gtg 273

<210> 734
 <211> 287
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554219H1
 <400> 734
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ccaacgagat ctctgtatct gccgaagagg aattcaatat cgagaagctg cagttgggtg 180
aagccgaaaa gaagaagatc aggcaagaat acgaacgcaa agagcgccaa gtcgaaattc 240
gcaagaagat tgagtactca atgcagctga atgcttctcg gttaaag 287

<210> 735
<211> 282
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700554220H1
<400> 735

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attctcatgg tccagaccct tttcctagtg atcttganac agccacaaat tcccatcatg 180
atttactcgc ntcttactta ggaagtcacg aganggccna ggaagcaata tataactcgta 240
caataagtac atcaaggcnt tgctgcccta cttgaagagg aa 282

<210> 736
<211> 290
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700554221H1
<400> 736

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gcgtaccgga ggccaattgc tnccgccaaag cccaccaagc agggagaggg cctccgccac 180
tactattctc tcaacatcca cgagcatcag ctcttctctc gccaaaagac tcataacctc 240
aaccgtctcg aggcttcaga gaaacgacct ncatnctagg gtgaggatgc 290

<210> 737
<211> 277
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700554222H1

<400> 737

gnttgacaaa agactttctg gaaaaaggac gttcattgta cttgatgacg tgaatgagtt 60
 ctggccaatt nnaaancct atgtggaaat cgtaantggg tcggtaagg aagtgaata 120
 atcattacaa ctagagatcg acgtctgctt gaccaactta aagttgannt gtttatgatg 180
 tggataannt ggacgaaaac gagtccttg agcttttttag ttggcatgcn tcnatgaagc 240
 nntaccaana cnngnttnna atgagctgca nganagt 277

<210> 738

<211> 286

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554223H1

<400> 738

cctaaaccta cccatatttg cttttgcacc aaccaatgca tgggtcattg cacttagtct 60
 tcaatgcccc actttggata aagaaataga aggagaatat agcattgaaa gcaaaccgat 120
 ctcaatccca ggttgcaaat cggttcacc ccttgatttg attcntatgt tgcgtgacag 180
 gacacaaagg gtctaccatg aatttgttgg cgtgtgtgaa ggggcagcac tggctgatgg 240
 gatatttggtg aacacgtttc atgattggag ccaaagacat tgaagc 286

<210> 739

<211> 289

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554225H1

<400> 739

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 atgcgactcc tcccttcccc atgacgtgga tgctggtgtg ttgaagaaag tgggtgtggc 120
 tgagggagca gcggttaccg tcaaagggtc aagatccgtt agtcttcggc nacctcttga 180
 tttccctctt ccgttaaacc gaacggagaa tggttttgct aacggctctt taactttggc 240
 tgagcatctt cgccatgctt ctagaacca ggttctccga ttctctcgc 289

<210> 740
 <211> 289
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700554226H1

 <400> 740

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 ccatggcngc ctccgtctcc actgtcggag ctgtcaacag agctcttttg aacctgaatg 120
 ggtctggacc tgggggtttca gctcccagtt catccttctt tgggagcagc ttgaagaagg 180
 ttattggctc aagggtcccc aacacaaaga ttncctctgg aagcttcaag atgttgctgt 240
 agaagagaag aaagagatga agagaccag cagaccggac aaggacaga 289

<210> 741
 <211> 288
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700554227H1

 <400> 741

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 ggtgttctga gggacgcac agcaaagtgg ctccgtggct ttgctaaaaa actgaaccct 120
 acttatgcag tgcaccagac agagttagaa gccattctca cgggcttgaa ggtggcttca 180
 gagatgaatg ttaagaaaact aattgtggag tcagacagtg actctgtggt gagcatggtg 240
 gagaatgggg ttaagaccaa tcaccctgac taggtgtcgt ggaactta 288

<210> 742
 <211> 289
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700554228H1

 <400> 742

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 atgattggcg ccggtggctt cattgggtcc cacctctgcg agaagctcat gtcggagacc 120
 cctcacagtg tctcgcctt ggatgtctac aatgacaaga tcaaacacct cttggaaccc 180

cacacgctcc cttgggcctc tcgcatccag ttccatcgcc tcaacatcaa gcacgattcc 240
 cgtctcgaag gcctcatcaa aatgtcagat ctgactatta atctggctg 289

<210> 743
 <211> 295
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700554229H1

<400> 743

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 gaaatacaat ggcattgngt caatgggcta aaatacatct caancngtan tgagcacttg 120
 nccttgaggn cttactaatg agttncgcta gaggnatggn ttgggcaatt ccagctgga 180
 ancttcttnn aacattgcaa gnattgtaaa aacntaatng ggaaacngnc cnagattggg 240
 nttncaccaga aaggaattca anaaanccgg nttagannaa aaccccngaa cnnac 295

<210> 744
 <211> 298
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700554230H1

<400> 744

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 gcgaaccagc aatacgcnnn nnnnnnnnnn nnnnnnnnnn nnnnngccta catgatgatg 120
 ccgccgcagc ctcagccccc tacagatgtg ggccccatcg gccagcctc cgttcccaat 180
 tcggtagcta cctccggcaa ccaccagcg ccgatgaggt ccgttaccct actggatcgg 240
 cganttgcat nactggatgg gaganantat ctctatgacc tgtttcgcac acaccggc 298

<210> 745
 <211> 291
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700554231H1

<400> 745

<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554239H1

<400> 748

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tntgccggcg gtaacggagc gngttcttgc ancanggtaa aaaggnttgg annngtnaca 120
agtncttcnt gaggnaacct aatggangca aanantgnca acccttggtt ccaattnngt 180
taagntttcc ctaagttggt ngcggagAAC atgtAAagcc ttcanagAAC gtggctnctg 240
gaatcctgtg gcggtttctt gt 262

<210> 749
<211> 242
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554240H1

<400> 749

attaagtggc cacttaatta tatttccaga taggaaaagg agaangtgaa cactttgatg 60
atggatggtt gaaaatttgc atgatttttt ggcaaatgat ttaggcaggc tgcttggtac 120
ctaattattt tgactagga ggcttaatga atatctgttc taacttctta agtgttttag 180
cctgtatttt tattttatgg tgtaataact ttgtaatata gggatttttt acatgttcct 240
at 242

<210> 750
<211> 289
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554241H1

<400> 750

gggctaccag aagtcaagac caatgaagtg ccaaagaaa acattctgga gaagccagaa 60
aagcctgaga gcacttcttc ccctagagc ttacatata gtaatttcaa gtaccgttaa 120
gaaacctatt ggtgctaaga aagcagtga gagtggggga ctggcgctc gtaaactcac 180
taaaaagcca agtgagtctc tctatgagca gaagcctgag gaacccctg ctccagtttc 240

tggttagaat ggttagatctn cacggagggtc antantaagt caga 284

<210> 754
 <211> 283
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554245H1
 <400> 754

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 gaatggatga tttgaacctg atgatccaaa tccgggtcag gattcctctt cctctacaca 120
 gaaagttgat gaacgtagta aggnacaggt ggangatttt natcttccgg atttcgaggt 180
 tgtggataaa gggggtgagg ttcaagagaa ggaacnngat ggaggagagg aagctgagga 240
 acctatncag gaggaatcaa cttcaangga agttgncaat ncg 283

<210> 755
 <211> 285
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554247H1
 <400> 755

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 atacatgggt tccggtactc tctctgtagc caaaccagcc cttcaggcaa atgggaaagg 120
 ctctctgaat tctctggcct ccgcagctca tcaggcttcc ttcccttttc tagaaaatcn 180
 ccagaggatt tccattctgt cattgccttc cagaccaatg cagttggaag cagtggagga 240
 tacaagaagg gtgtgacaga agcaaaactg aaggttgcca taaac 285

<210> 756
 <211> 285
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554249H1
 <400> 756

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ngccgcaaag nnggtttggc ctcaccggaan tcatacgcac ggtcgntttc tggacttcg 120
 cttccaaatt cttttccccc annaaaccta ccgaaccttc cgctctcatc tccaatctct 180
 ttcagaaagc acngcctctg gatatgtggc tttatctctc cgagcacgag aagttcaatg 240
 annttngcng tgaaagttn cttgnatggc atganaccat gntcc 285

<210> 757
 <211> 270
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554250H1
 <400> 757

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 tggccgcgtc cgangccgac gacatcctga tccgtcaggt ggtgccagat gttggcgaac 120
 gcagaggagg acaacctgct gaacgccgan caccacttcg cgcgctnana tggccaagtt 180
 cgccaagacc tacgccacca aggtaggagc acgatcatcn cttcggcgtc ttacaatnnc 240
 aacttcgcag agccaggctg cacgccaagc 270

<210> 758
 <211> 280
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554252H1
 <400> 758

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 tgtacacagc ctcaaaattt aatggtgatt tttgctgggt tgatattgac ggggatattg 120
 atgctctttt taaggaatac tggtgcaaga aattgcatcc aaagaatgta tgcgaaaagg 180
 ttttcaggca acctccttta cgcgagtcct ttaagaaagg gaaagctaaa aagcaagagt 240
 ttactattac caagcagaag gctgctcttc tacaggtctc 280

<210> 759
 <211> 281
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700554253H1

<400> 759

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tcaacttcat cctantnttt gaggttttctt tctnccaagc ctcacagtgt cactataagg 120
aattctcaag ctgaagggcc tataagaagg ccagtggcac cttcannaag agannnnnnn 180
nnnnnnnnnn nnagtgcgcc tcagcttcag aagccaacac ttccttctca gcctccacca 240
tccccttcac cccacagaa gccagctact tgnnnnnnga g 281

<210> 760

<211> 281

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554255H1

<400> 760

tctactctct cacttctntc tatcacattt tacttgcaag anggcagcgt catcagcatg 60
ccttgtaggg aatggttttat ctacacgggg taatagaata actctcaaga aggacttcaa 120
tggaagatat ctctactcac cttgnggact ttcattcattg aacaataagg catcagaagc 180
attttccata aagtcttctt ggagcanagg caacaacaag anngganann ggggtttcta 240
aaactgttgc ttggaaatgt gggattnnntt tncctgcact a 281

<210> 761

<211> 284

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554256H1

<400> 761

ctagatanca tctctctaaa tttctcatct tctcctctgc ccccatcacc ttgatctgtc 60
tgtctatata ctattgtttt gacaaaaaac aaaatatata cacccggnag tnttgtcata 120
gctgagagct gactctagct agaggataat aagattacaa gagagaggaa ttgtttntga 180
ttggatccac aaaattcaag atgactccag tnaatttggc aggccagttt ggtgacacga 240
catacactaa ggtgtttgtg ggangctggc ctgggagact caaa 284

<210> 762
 <211> 281
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700554258H1

 <400> 762

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 ccatggcctc ttcacgcctt gccaatgtgg gaatccttgc catggacatc tacttccttc 120
 ccacctgctg caccaggat gctttggagg gtcattgatg ggtgagcaa gggaaatata 180
 ctattgggct tggacaggat tgcattgnc tctgctctga ggttnaagat gntatctcaa 240
 tgancttgac ggtagttact tcacttcttg aaaatttnag t 281

<210> 763
 <211> 228
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700554259H1

 <400> 763

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 annactncga cgaagaagat ccgggnnctt ccaanaanna tggcacttgn ctcnegccct 120
 agcnaccgac ngagtggaaa nccncatncg cacaggctag tgcgangctt ncgagaacnt 180
 tctttganna agcagttgna gagnacgcaa atgaactctg cngttccc 228

<210> 764
 <211> 264
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700554262H1

 <400> 764

 caacacttcc atatcttacc ttctcncct ccatctttga ggttctcacg ganacttctg 60
 aagatggctg gcatagcatt cggaagcttc aatgattctt tcagtttggc ctccatcaag 120
 gcctacattg ctgagttcat ctcaaccctt ctctttgttt ttgctggtgt tggttcagcc 180

atagcctatg ctaagttgac atcagatgca gctcttgatc caactgggtt ggtagctgtt 240
gccattgccca ggttttgctc tctt 264

<210> 765
<211> 186
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554264H1

<400> 765

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acacttcaca tgatttaaca tgagttttac accatctata tgcttgngt ctaatataca 120
tattttaaaa tgatgtttcc ctttcttccc cggttcaagg aacgatgtta agtgatctaa 180
catccc 186

<210> 766
<211> 267
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554265H1

<400> 766

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gctaagtcca agatgccgtg ggtttccttg tttgtggatc acaaaagaaa ttgtgttcgc 120
ttggtggtgt ttttctgtgt gattctgtaa ttttaattgct caggtgtagt cccattaggt 180
tgcaaagcaa ctcttttcat agctgttctc ctttcattcc aaagctgtta ggggatgag 240
gagtactttg cnataacaat aaagaga 267

<210> 767
<211> 279
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554266H1

<400> 767

ganaaattgg aaagagtaca aatttaagag gaaagataac attaccaacc ttgggagctg 60

gcgaacaagc atacgatgtt aattttgaat gggacagtga cttcggaatt cccggtgcat 120
 tttatattan gaacttcatg caaaatgagt tctacctcaa gtctctaatt ctcgaagaca 180
 ttccaaacca cggaaccatn cacttnntat gcnactcctg ggnttacaat tcagaaaact 240
 acaagactnc tcgcattntc tttgccaaca atacatatc 279

<210> 768
 <211> 279
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554268H1
 <400> 768

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 cacgagagtg gtggcgagca gagccctcgc ggctcgttgt ccggcgcggc tagagagcag 120
 gaccggtacc ttcccattgc caacatcagc cgcacatga agaaggctct gcctcccaat 180
 ggcaagattg cgaaggatgc aaaagacaca atgcaagaat gcgtttctga attcatcagc 240
 tttcattacc agcgaggcga gtgagaangc cagaaggag 279

<210> 769
 <211> 278
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554269H1
 <400> 769

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 tcacattcat ttgggtttgt tcaaggtgtt ggatcagacg gaactggtga aaccgcatga 120
 tgagtttacg gaatgcatga cgacaatcaa cgatgcggtg aagtgccacg tggacaagtn 180
 cgcgcgtggc annatnatag angtgccaac ncatntnaaa gggtnaatag ctgcgttcac 240
 nctggtgccc gngcagtgac naacgttact ctnaagnt 278

<210> 770
 <211> 219
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700554271H1

<400> 770

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naacntgggt tctgcttcnt ntcgggcttc tacttctgtn angectgcng ncatcagcac 120
caatccagcc agntctcagc aacaaatgca gctgatcag cagtnagcng cnaatntcnt 180
tcancgtcan nnctcnnagt cgntntngag cngantgtg 219

<210> 771

<211> 282

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554272H1

<400> 771

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taaagattct gagtatctgg agtttcttga actacttgcc aagcctgttg agaattctcc 120
cagtgccgag atacaattgg agaagaggga agcagaacga tctggtgctg caaaagatat 180
tcctatnatt acaccactga tggactttgt ggcgcagaaa agagctgcca agggacctag 240
gaggccactg tcaaattggnt aagtgagtag aagagctggc ac 282

<210> 772

<211> 274

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554273H1

<400> 772

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anttggaggc aggaacagtt tcaagtnatg ncaggnaaag tgaantcaag gcatttgatg 120
attcaaagac tgggtgtcnaa ggactggtag aaaatgggtg aacaaaagtt ccacttatgt 180
tctnggnnga aaactctaata ctcgatgagg cgtaacgggtg ctcantcna agatcagcat 240
ccentattgg cctcacggca tcngntgacc tatt 274

<210> 773
 <211> 281
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700554274H1

<400> 773

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 atggtgcccc tactccggag gtgaaatgcg caagttggag gcttgctgtg gaagcacaca 180
 acatcctttgg ctttgagacc attcctgaag agtgcgttga agcaacaaag gaatacatcc 240
 atggcgaaca atatagatca gactccaaaa cagttaacca a 281

<210> 774
 <211> 117
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700554275H1

<400> 774

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 tcatcagcat tgccatttcc tgtttcactc accacatgga aaagcttatt cgcattgt 117

<210> 775
 <211> 281
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700554277H1

<400> 775

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 acagcagcag ccacctnctg ctttcatggg gacgcgcctc ctggaggccc actccggggc 120
 ggggcnggtg caggcccggg tggggtttgg caagaagaaa gccgccgccc cgaagaaagt 180
 ttccaggggg tggggtctta gctccgatag gccctgtng tatccggnnn ccaaagggcc 240
 cgagtaactg ggatgggagc ttgtcgnntt tacggattca c 281

gaaaggcagc tgaggggtcca ctgaaagggtg tgttggaactg tgtgatgttc cactgtgtct 240
atcgactccg ctgctctgag tttcctctat attgact 277

<210> 779
<211> 275
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554282H1

<400> 779

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tcacctgtgt tcgtcacagt cacagacaat ggtccaatc aattcccgta aattatagat 120
tctttgacgc tgctcggaac tctctatcat cacccaactc cgcgatcttc aaatagagaa 180
gaaaggccaa ttataaccgt catagttctg gaatggggac cttcaccact cgcgcgttgg 240
cgcagcgctt tcanaacgcc gacgaactcn tcgac 275

<210> 780
<211> 272
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554283H1

<400> 780

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ccaagcccg c ngccctccgc cccaaactaa gcccaaagct aaggtccgcc gccacaacca 120
ccatcgtctg nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn ngtgtcctcc gacctgaagg 180
cgttctccgc cgcgctggcc ctctcctcca tctcctctt cgcgccctct cccgccggcg 240
ccggacatct cggggctcac cccatgcaag ga 272

<210> 781
<211> 276
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554284H1

<400> 781

ggggactagt aagattgaaa tcatatgtat gantttntcc tcatttggag aagaagtaga 60
atgggatgga natgccttca agaagatgan aaatctcaaa acacttatca tcaagagtgn 120
ttgtntttcc gaagggtcca agcatcttcc taatacttta agagtattgg aatggtggag 180
atgtccttca caggattggc cacatnattt taacccaaag cnacttgcta tatgcnagtt 240
acccgatagt agctttacat cagtcgggnt ggcnc 276

<210> 782
<211> 277
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700554287H1
<400> 782

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atthttgtgac atctgactca actgattaaa agcattatca tactgcacaa atggatgtcg 120
aacttgttgc aaattaaaag gcatcaagtt aacagaagaa gttggaatac tcttagcata 180
cctttcatag ttacgatcat aatctggatc actgcgatcc tttccctatc tctcaagatg 240
gcaactcgag tagattaata tccctaccaa tagagca 277

<210> 783
<211> 265
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700554288H1
<400> 783

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tgaagaatat ggtcctgtta gcgangtctn cgtgccttcg agcgaaggag ttgaagctat 120
atthggttat tggcaaaggc tatgttgttg taaatgactc gtgctaccat caactcgta 180
gccatggcta aacactcatg cggttgttga gccatcgta tagcaacaaa taggcatctg 240
agtgtggttc accctattac aaact 265

<210> 784
<211> 261

<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554289H1

<400> 784

gttctgaaca tggagctggt gtctannaga ctcaaccctt cagncttctg cttcgacttc 60
aacgcttcct gcagcacttg ctactgctc caagctatgt gagtttcaac cgcggaagna 120
gaagaagggtg tgtttcgacg cgtntaggtc tgcggtgcgg tgtntgaaag cctcggcgca 180
gcaaattccgg tgatactcat cgacgatgga gngancggac tngnntcacc anacctgcca 240
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<210> 785
<211> 279
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<223> Clone ID: 700554290H1

<400> 785

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gccacccttc aattggcgga gatcaagcac gcccgctctc ccatgggtggg cttcttgggc 180
tttgagtcac aagctgccgc cactggcaag ggcccgtctc acaactgggc caccacttg 240
agtgacccat ccacacaacc atcatgnaca cttctcatc 279

<210> 786
<211> 274
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554292H1

<400> 786

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ccatcgtctg nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn ngtgtcctcc gacctgaagg 180
cgttctccgc cgcgtgggc ctctcnncca tcctcctctc cgcctctctc cccgcccggc 240

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274

<210> 787
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<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554293H1

<400> 787

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agtgggtgaa gggacaaacc ctgcaccaacc ttctgcatca gttgtgagat gcaaccccac 180
caccatca ggctcacca tcagagctgg ttcctatgct gatgagctcg ttaagaccgc 240
gaaaacatgg ctcaccagga tnggtntttg gccagg 276

<210> 788
<211> 279
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554294H1

<400> 788

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ccgcagcccc caagaaagac gacggaccca tccctgtcgt ttacaaactc gacttgcatt 180
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ttaaggcaga tctatcgtcg aacaaatgat gttacggca 279

<210> 789
<211> 279
<212> nucleic acid
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<223> Clone ID: 700554295H1

<400> 789

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 tgcattgctat ttctcactcc tgataatgat ttgctggcaa tgaacagact atcaccttgg 240
 atgaaataaa gaatcaacag ccaacatgta acagattat 279

<210> 790
 <211> 279
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554296H1
 <400> 790

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 tcattaaaac ctacaacctt gatggcatcg atgtcagcta cgaggncatc gccgccaacg 180
 aagccgactt tgtnaattcc gttggggggc ttgtgaggaa cctgnagcag nacgagctnc 240
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<210> 791
 <211> 296
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554301H1
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 attttaacct agattagcat gattgataga aaatgttgat ttagcatag gataccatat 180
 cctctatctt tgtagtatgt tggctccga aatttcattc ctttgtaatt agatattgta 240
 agacaataat gtgccagtaa ctaattttat gcttaaaaaa aanaaaaaaa aaaggg 296

<210> 792
 <211> 295
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700554302H1

<400> 792

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nccggaanac ccgttaaagt ggctnttact tactacaang cgaaaaattc gatgangcaa 120
aaaatgccgg agctgatttg gtgggtggag aggntctgat agaacagata aaagcagggg 180
tcatggagtt tgataaacta attgcttctc cagatatgat gcctaaggnt nctagcctag 240
ggnagatctg gggttcagagg acnntnccat acccanaagc tggcatgtaa cacca 295

<210> 793

<211> 297

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554304H1

<400> 793

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tcagcgagta tgaagctatt gcaaagcaga anttgccaaa gatgggtgttt gactactacg 180
catctggngc agaggaccag tggactctgg caggagaaca gaaatgcctt ttccagcaat 240
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<210> 794

<211> 289

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554306H1

<400> 794

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gangcctctc tctgtccgat gctctggcga ttcccccttc ggctctgtgg gtccggagtt 180
cgatccgaag gtgtttcgta agaaccttac tcggagtaag aattataacc gcaaaggatt 240
tgggtacaag gaagngancc tccaactcat gaatcgcgag tacaccagt 289

<210> 795
 <211> 114
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554307H1
 <400> 795

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 anttgtttca atnaccgacat agtcgcgata attgccnctt tnttntntng gggg 114

<210> 796
 <211> 290
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554308H1
 <400> 796

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 tcctcaatgc tgctggcttg acccctctat ctgtgctctc tgatacaaaa acaacaagaa 180
 ctaaacaccc ttctgtttct gtatgcaaag tctcaaactt ttccacctca accaacaatc 240
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<210> 797
 <211> 291
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554309H1
 <400> 797

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 aagagcaaga tgtcaaagaa cataactcat gggttatcatt tggtgaaagg aaaatcatat 180
 catgacatgg aggattacgt tgtggctcaa ttttaagcaa tagataacaa tgaattgggt 240
 ttgtttgcaa tattcgacgg ccatgcgggt cagaacgtac ctaattactt g 291

<210> 798
 <211> 289
 <212> nucleic acid
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 <223> Clone ID: 700554310H1
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<210> 799
 <211> 279
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554311H1
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 tnccttgctt ttctgtattc gccaacatcc tcaagagggg ttttcattcc aaatgcaatt 180
 acccttcaac aactcatna aaggcctctg ttttcgtggg gcgattaaaa aagcacttta 240
 cnntcagat canttggtn gctcaagggt tccagttgg 279

<210> 800
 <211> 277
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554312H1
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tntcccantt ctgcattttt ngttngncng aggagnaacc aagaattaag aaatgggttg 180
ctccgtaana ntttggttg tctatttttg gtgttgtnng tggcatgtgt tacaggggag 240
gaccctatag nntctacact ggaatgtcac tatggag 277

<210> 801
<211> 292
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554313H1

<400> 801

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gccgtcgaag anttttctcc atcaccggcc gtgggaccgt cgccaccggc cgcgtagagc 120
gtggcaccgt caaagtaggg gaaactgttg accttgtagg attgagagag acaagaaaca 180
caacggttca cagggtgtgga aatgttccag aagattctag acgaagccct cgccggggac 240
aacgtggngc tgttgctgag nggggttcaa aagacggaca tccagagagg ga 292

<210> 802
<211> 284
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554314H1

<400> 802

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atcaagcatt gcctaattgat cttgtcaaga gaggagttgc tgtaaggat ccatctgctc 180
cccatggagt tcgacttttg atcgaggact atcctatgct ctgatgggct agagatatgg 240
gatgctatca agtctgggtg gagaatatgt ctcatctact acaa 284

<210> 803
<211> 291
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554315H1

<400> 803

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catcacaaga tgaaggtaaa anttggattg ggttcacag accctgaact cagggaaagg 120
aaagagcaag atgtcaaaga acataactca tggttatcat ttggtgnaag gnaaatcata 180
tcatgacatg gaggattacg ttgtggctca atttaagcaa atngataaca atgaattngg 240
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<210> 804

<211> 295

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554316H1

<400> 804

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gctgctgctt cccttggcat gtacagaaat gcttggaac cccatcaacc tcagtgggtgc 120
cacaaggcca gctccatctg cctctagccc tgcctccttc aagactgtgg ctcttttctc 180
caaaaagaag gctgcaccta ccaaaaaaag ctgcagctgc tgctcctgcc aatgatgagc 240
tgccaagtgg tatggctcctg gacagaagga tcttcttgcc tgagggtctc ttgga 295

<210> 805

<211> 293

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554317H1

<400> 805

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ancaaaggty gagttatatt tcaatttacc tctcatgcca attgcagtgt tcaattaccc 180
atctggccaa gactcagtga tccaagtaag tagccaagac tatgcanttgc caaactgat 240
gcatacagtgc caaaattctc anacgggcca cagtcacatca tctcaaccat cag 293

<210> 806
 <211> 290
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700554319H1

<400> 806

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 ntgctcngca atatgactct aagatgaatg aattgctttc cgctgatgga caagaatttt 180
 tcacagcata tgctgaagtc tatgatagtt ttmntgcaat gggcctcaag aaaatcttct 240
 cagaggccna tatgcttatg gttttgagag gcctctgccca tncagcaaag 290

<210> 807
 <211> 283
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700554321H1

<400> 807

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 ggaaaggaca agaccaagga tcttagtgcg ctgaagcaga agcttgaaaa nattaacgga 180
 aaaatacaac cactcctgaa aagaaggctg atatagaaag gcgataaaag aagctgaagc 240
 tgagggctcg tatcatggga aggacaagga tgaggtacnt agc 283

<210> 808
 <211> 285
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700554323H1

<400> 808

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 ggagttcgag tcggcgctcg aatccgccaa agacaggctt gtggtggtgg aatacgtgc 180

cagcgacagc gagngagca gccagatata ccccttcatg gtggagctga gccgcagctg 240
 caacgactgg anttcatcct ggtgatgggc ganagtcgga gaaga 285

<210> 809
 <211> 286
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554324H1
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 tacgttnnct ggagtgcnaa tntgntggnn gaagaggcna agcgtagct gntagactgc 180
 ggagtntcng gctaagaang acaggttaag gntgtggncn anctatgtac caccgccttc 240
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<210> 810
 <211> 285
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554325H1
 <400> 810

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 ctaatacgaa tccctgagatt ttccgctgtg cggtttgcca agcagatcag ccctctgtgg 180
 acagtttatc aatgaacact gggccttttt cccccagta tctaagccat gggaagggtc 240
 atocttctgg cacaaactgt cagaagaaga aagatgccat ggaag 285

<210> 811
 <211> 288
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554327H1
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 gatcgggtggt gctggcggag ttcagcggca ccaccaccaa cgccagcgca atcgcgcgtc 180
 agatccttga aaaaatcccc ggcaacaacg acacgcacgt ttctactctc aggatcgctn 240
 acatcttcca tgttaaacgc accgntggaa tacaccgttc tctgcatg 288

<210> 812
 <211> 284
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554328H1
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 gagctccaaa ccttcagatc cacctcattc gtctccagat cttccttcct tgataacgtt 180
 ttcgggntcg agaaggcact tgnttggttg tcgtacgaaa tggagactaa accgngttcg 240
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<210> 813
 <211> 284
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554329H1
 <400> 813

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 aaagttccaa gattttgttg gacagaataa caattgcaaa gtttgagatc acccagaaa 240
 catatcattt taaaagccta ctcgggtatt gagcggttat caaa 284

<210> 814
 <211> 292

<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554330H1

<400> 814

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gtagcttccc aactcactcc caacaccaat ggatcaactc ctgtgagggg agagacagtg 240
gccaagttga aggtggcaat caatggtttc ggacgcattg gtagaaattc cc 292

<210> 815
<211> 293
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554332H1

<400> 815

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aattccttca agaacaannt acctcatcgt actattccct acatgatggc tggagattgg 180
ctacaaggtc catatgtcta ctacctnca cagtacatat ggatatggga agggagacat 240
aggacaactc ttcatgctgg ttttgggtct ccatgctctt gnaacaattg tcg 293

<210> 816
<211> 296
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554333H1

<400> 816

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cccanctgag gacaccattc ttacctctac cccatgttgt gcatgtgaat acagctgggg 180
ctgcaccttc ctcttctgt tctttccggc atgtctgaac gtggatttcg tgtcacacac 240

taaagagtta cttgtaacgt aatacaaata aactcgagta tggatattgt caggaagact 120
 atttgacttt gtttnttcaa cccccaata aattogaata ttatggttat gacactgttt 180
 ttttcagatt tcatttttct ataatagaga gttctattat agaaatntcg attgtaaaat 240
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<210> 820
 <211> 285
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554342H1
 <400> 820

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 actatttgtg tgccactttc tggattgatt aaccatctta ggtagcagag tccaccattt 180
 cttgattttt ggaggttaac agtggtcata ttcaaacactt tgctatttct caacttacia 240
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<210> 821
 <211> 281
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554343H1
 <400> 821

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 tttgtngctt gcnaagcttg caaagccatt gattggaacg gctcgaatag tgattaacag 180
 tottcatatc aagggtgatc tntgcctac acctattcta gaggcagaag cacttctgta 240
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<210> 822
 <211> 283
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700554344H1

<400> 822

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gtgatcactg gctacaaaga tgggttcaac cagattaagt ccttggttga tgttggagggt 180
ggcattggag ggtctctttc ggagattggt agggctatcc tcatatcaat gccatcaact 240
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<210> 823

<211> 287

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554346H1

<400> 823

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aagaaaaagt gagattgtat tcattgctcc aactggagag gagatcagta ccaaaaaaca 180
attggagcag tacctaaagg cacatcctgg ncaatcctgt acatttcaga gtttgactgg 240
ggaactggtg agaccctag gcgatcagca aggatcagtg agaaggt 287

<210> 824

<211> 288

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554348H1

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atggagctct acgccgacgt gactccgagc accgccgaga actnccgcgc gctactgcac 180
cggcgagaag ggcgccgggc ggagggcaag cccctccact acaaagcttc gtccttccac 240
cgcgatgatcc cgaatttcat gtgccanggc gncgatttaa cgnccggga 288

<210> 825
 <211> 287
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554349H1
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 agtataaaagt gactcatttt tgtgcagcac cagtggttct taacacacta attaangccc 120
 cagctgagga caccattctt cctctacccc atgttgtgca tgtgaatata gctggggctg 180
 cacctcctcc ttctgttctt tccggcatgt ctgaacgtgg atttcgtgtc acacacactt 240
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<210> 826
 <211> 282
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 <213> Glycine max
 <223> Clone ID: 700554350H1
 <400> 826
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 ggaaaaggcc aacgagatct ctgtctccgc cgaagaggaa ttcaatatcg agaagctgca 180
 gttggtcgaa gccgacaaga agaagatcag gcaagaatac gaagcncaga gcgccaagtt 240
 gaattcgcaa gaagatgagt actcgtgcnc taaatgcttc tt 282

<210> 827
 <211> 283
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554351H1
 <400> 827
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 ngacgcagct gantgnggac atgtcagtgc aannttacct ggataagcan atgcnntccc 120

gaaaacncga agatgccgta cnatgcngcn gttagggccn aaacctccga tcccgnncgt 180
tcattctcga atacacatgc ganacgcant gcaattcggg gataaaacaa tcaaggcgag 240
gcagatccta gttagcagng gaatccancg tcgaatcgat tgc 283

<210> 828
<211> 272
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554354H1

<400> 828

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aaggaggaac ttgatgttcn nnnnnnnnnn nnnnnnnnnn ntttgcctctg ttgctgggat 120
ggcagtggca gatgagccaa aaccaggaac cccagcagcc aagaaaaagt atgctccgat 180
ttgtgtcacc atgccaaactg ctaggatttg tcgcaattga gggactcggg tttcctttta 240
cttctgatga tcggaaatgt gcattagggt tg 272

<210> 829
<211> 278
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554356H1

<400> 829

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taaagagtta cttgtaacgt aatacaaata aactcgagta tggatattgt caggaagact 120
attngacttt gttttttcaa ccccccaata aattcgaata ttatggttat gacactgttt 180
ttttcagatt tcatttttct ataatagaga gttctattat agaaattcga tgtaaaatac 240
aataaaattg gatcgatact aaacataaaa tagatatc 278

<210> 830
<211> 97
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554357H1

<400> 830
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acaaaancaa cgcnttttct ctnctccntc gtatcta 97

<210> 831
<211> 270
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700554358H1

<400> 831
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gtgccgcca ttctggtggc catgctcaac aacgccgccg ctatcaaggg caagtaagat 180
atcacgtcgc tgcattcggg gctctccggg ggggctccgt tgagcaagga ggtcatagag 240
ggcttggtggc caatatccca agtcaccatc 270

<210> 832
<211> 283
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700554359H1

<400> 832
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ggaaaaggcc aacgagatct ctgtctccgc cgaagaggaa ttcaatatnc gagaagctgc 180
agttggtcga agccgacaag aagaagattc agggcaagaa tacgaacgca aagagcgcca 240
attgaantcg caagaagatt gagttatacg atgcagctaa tgc 283

<210> 833
<211> 283
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700554360H1

<400> 833
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 tctccttggtg ggatggctct caaggccatg gtttcataat gtgtctgcaa tggaaatggct 120
 ttctttcaga ttgaatttac tttcaaattt tgtttttgcc ttctcactag tcatgctagt 180
 gagcctccct gaaggaataa tacaatacca agtattgctg ggttggcagt aacatatggg 240
 atcaatctga agtggtgcaa gcttcagtta tatggaacat atg 283

<210> 834
 <211> 283
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554361H1

<400> 834
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 cacttgctaa naaagctttt tctacctcna aacaagaatc ctcantagtt gaagactgaa 180
 atcaattaaa gctgatgatg attcaattcc ttttggtctg gcctctacta ncttngctga 240
 tccttcaatt ggaagaaata aaactgtgag gtcaacacgg ctt 283

<210> 835
 <211> 281
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554362H1

<400> 835
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 ccttntcctt tncaactatt ccaactnacca agtccatgga ntctttgagg ctgcaagttt 180
 tggaggggtca aatattgatc cancngett ggaggataag nagtgcccgg tgaatctcgt 240
 ttccccgctc agtacgagt ataataggna aattgtgaac c 281

<210> 836
 <211> 284
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700554363H1

 <400> 836

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 tttactgagc tttcaaacga acttttnaat tctccagaac cttctcgttt ttccgcccag 120
 gatcgcgatt ccgcagaatc gttctcaatc gtcgcttgat tcggttcgat tccgtgggtc 180
 gagctgcatg aactgggttcg ggaagctgga ttcacatcgc tcgcaacttg aacttcaatc 240
 attcggttacg tgtctgttga tttttttcct ccattttcgc ctca 284

<210> 837
 <211> 108
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700554365H1

 <400> 837

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 tgattttgca tttgtcctcg gctataattc cacacaacat annntnnt 108

<210> 838
 <211> 286
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700554367H1

 <400> 838

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 gcatgtcann cnatgtacac ggagnttcnc cacnttgcca tggctgangc aaacgccagt 120
 tgttgcnat ccgttttgaa acggnnagcg tngccgtncg ggccanngga agccgcnttc 180
 ngaaagggat nactccgccg tcgaggcaga aaaaggaaga agaggatgtt tgcttcanat 240
 acttcgacgg tggaancctt gttctctgtg atcgnctgg atnncc 286

<210> 839
 <211> 256
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700554369H1

 <400> 839

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 tcanggagan ggaggaggaa gttgaaattg ttgagtata acaattactg acagcagaag 120
 agctgcantg gaggtggtaa atgaaaattt ggagctgcaa acttggttct gatatacccta 180
 ctgaactact tagaattant ctgtcccttn aagtctagca tgatatgttc gggctcggtt 240
 gtttncnana natagc 256

<210> 840
 <211> 275
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700554370H1

 <400> 840

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 cgtcattgga catgtcgact ctgggaagtc caactaccac tggtcacttg atctacaagc 180
 ttggagggtat tgacaagcgt gtgattgaga gggtcgagaa ggaggcgccg agatgaacaa 240
 gagtentcca gtagcctggg tgctcnacaa nctcc 275

<210> 841
 <211> 276
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700554371H1

 <400> 841

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 gaggtcacgt ggatcccgag accaagcata ttcagaagga tgggttgaat tcggtaataa 120
 aagtgttgct aagaggggtg ccaatatgtt aaatggtgaa caaatagggg gtaagaagag 180

gtcatcattc tactatgatc ttggaatatt aagtacttaa gtaagttcaa gtgggatgat 240
ctgactgaag aatagcctaa agaaagctat tcggga 276

<210> 842
<211> 279
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554372H1

<400> 842

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gaaacatggc ttcggctact ctctctgtag ccaaaccagc ccttcaggca aatgggaaag 120
gcttctctga attctctggc ctccgaagct catcaggctt ccttcccttt tctagaaaat 180
cttcagagga tttccattct gtccattgcc tccagaccta tgcagttggn agcagtggag 240
gatacaagaa ggggtgtgaca gaagcaaaac tgaaggttg 279

<210> 843
<211> 283
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554373H1

<400> 843

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tagcaatggc ggccaacgct gtcgtttcac cgtcgccgtt ccgacctcag ccctttctcc 120
ggtcacccct ctccggcgtc tccgtcaagc tcaactcccca atccataacg ctttcacgct 180
ccaagtcctt caccgtcttc gccgccacca agaaggccgt cgccgtacct caaggggacc 240
tcgcgcgtcg aaggcgctgc cactctcatc caagaagacg atg 283

<210> 844
<211> 278
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554374H1

<400> 844

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 cttttccttt acaactattc cactacacca actccatgga atctttgagg ctgcaagttt 180
 tggagggtca aatattgatc catcagcttg ggaggataag aagtgccttg gtgaatctcg 240
 tttccccgct caggtaacgag tgataatagg aaaactgt 278

<210> 845
 <211> 281
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554375H1
 <400> 845

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 ttctacattg ctccagcttt tatggacaag cttgttggtc acatctccaa gaacttacat 180
 gaccctgccc aacatncaag gttoctctca ttcttggtat ctggggaggc aagggacaag 240
 gaaaatcttt ccaatgtgag cttgtcttgc caagatggga a 281

<210> 846
 <211> 268
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554377H1
 <400> 846

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 tttctcggtt ttttaatgta cttttccccg tttcaactta acaatgatat aagttgcata 180
 tgggtctattg attgtttcgt ctccatattt gcttaatgct atgaagtggg ttgctctccc 240
 atttttgaga gttgaacatc tctgctag 268

<210> 847
 <211> 280

<212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554379H1
 <400> 847
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 taacaccttg tttnttgtga ttgtgggttg gaaacccttn aagtgccttt agatgcaaaa 120
 ttccatactg aagatccaan agttgtgggt gggaagtgtt ggcacagagg tacactgcng 180
 gatgtgttct aagactattg ctgactgtgt tgaagctctg ataggngcat actatgtaga 240
 tgggtggactt ttgtcacta atgtgatgaa atggcttggg 280

<210> 848
 <211> 280
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554380H1
 <400> 848
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 agaggatttc cattctgtca ttgccttcca gacctatgca gttggaagca gtggaggata 180
 caagaaggggt gtgacagaag caaaactgaa ggttgccata aacgggtttg gaaggattgg 240
 aaggaattct tgaggtgctg gcaggtcgca aagatccctt 280

<210> 849
 <211> 271
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554382H1
 <400> 849
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 atccgaaacc tggatgaagct actaggttat nttgacaaag gaaatgaacg ccttcttatt 120
 acagagtttg tgccaaatgg tacccttaga gaacatttgg atggatatgcg tggaaaaatc 180
 ctagacttca atcaacgcct acgaaattgc aattgatgtt gctcatggct gacctatctg 240

catctgtatg cagaaaagca attatccatc g 271

<210> 850
 <211> 278
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554383H1
 <400> 850

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 aanaaagtta gctctatatg cttaatagag aatgtgtttt ncnaaggngt tctgtttgta 180
 agaactggtg gaaggatggt ttgttagaaa gagcgtgatg ccgctnctgc ccaaaagggg 240
 gaaaagttat tatcatagtc caaggttggt ggaagctg 278

<210> 851
 <211> 285
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554384H1
 <400> 851

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 gccgcagccc ccaagaaaga cgacggaccc atccctgtcg ttacaaaact acgacttngc 180
 attgcgaggg atgcgtacaa gaagatcaaa cgcacatggt cgccacttac caagggtgtg 240
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<210> 852
 <211> 253
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554385H1
 <400> 852

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taacncaacc ccacttnaca ctnaccaaac aancccgcta ncnagatca accttctttc 120
 agacatagcg aagaaacana acacngttca tcatgtacaa gtnnccagca ccatgtatatt 180
 acgcantctc cttcacnatn ctnganaaag aaaaagnaga nanggcnctg ccntnecgnen 240
 tcttcatntn naa 253

<210> 853
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 <212> nucleic acid
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 <223> Clone ID: 700554386H1
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 gctgacaact gaggttaagt ctgttgagat gcaccatgag gctctcacag aggctctcca 180
 ggtgacaatg ttggcttaat gtgaagaatg ttgcagtcaa ggatctcaag cgtgggttttg 240
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<210> 854
 <211> 273
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554387H1
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 tagaaccaag tgataacatg aaaaaaggca tgaggaaatg accatgatac cggaagacta 240
 gggaagaaaa ggnggggaaag gaccaagact gcc 273

<210> 855
 <211> 276
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700554388H1

<400> 855

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gggtgaacct tgtgataacg ggaggggaaga ccaantttga gactcatgag gaagagcttc 180
cgaagaagga cnagtggacg acaaagaaga ggttgaagat gcagaggaag agagagaagg 240
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<210> 856

<211> 279

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554389H1

<400> 856

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ccagaagtgg gaaggggtgag catgaggaag accgtcacca agcaggtctc ctcaggaagc 180
ccatggtacg gccagaccg agtcaagtac ttggggcccat tctctggcga gccccgtcc 240
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<210> 857

<211> 277

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554390H1

<400> 857

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cgtggaagcc caaatgggcc tttcacccca aagacgtctt tctcaagttt cgctctcctc 180
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<210> 858
 <211> 257
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700554392H1

<400> 858

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 cctcctagcc agagtactag gcnaatgctt gtagagcgga tgaccaagaa ccttacaact 180
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 gaaacacatt gaggatg 257

<210> 859
 <211> 279
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700554393H1

<400> 859

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 ggagagaaaa agtaacacca aaacataagc atctgagacc atttcaatgt gtgctgacac 180
 aggataacag aagcattgcc gtccaagaat ggcaatgatt cattgggtcat atgtcggggt 240
 gtgaatggga tgtggcagac gagtgggtggg tggggcaga 279

<210> 860
 <211> 279
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700554394H1

<400> 860

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cccgcggaaa attggtgcga gacttcaagc atttgaatct cgattttcag ctcattactg 180
acgaaaacgg taaaagaaag ctgaaaatcg acgcgtgggt tggttctcgg aaaacatccg 240
ccgccattcg caccgccttg agccacgtgg agaattctta 279

<210> 861
<211> 279
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554395H1

<400> 861

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cccaagctga ctgtgctgtt cttatcattg attccactac tgggtggtttt gaagctggaa 180
tttcaaagga tggacagact cgtgaacatg ctctgctttc attcaccctt ggtgtgaaac 240
agatgattgt tgctgtaaca ngatggatgc tactacacc 279

<210> 862
<211> 281
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554396H1

<400> 862

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gggtctnctt ctttgcccaa aagaagacta ccagaagaa gcttttgcac taggggcatg 180
tcagaaacct cttccacttc ttctgtgagc acccaacaag aacaaccaat tctgataatg 240
cttcttcagt gacaattgct cctcccccta acttcaagcc c 281

<210> 863
<211> 284
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554401H1

<400> 863
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 tgagggtgaa aaaggagaga gcagcaattg gggacgatcg atgggcacga cagtgtgcgc 180
 agttgctgag cctgacagac ctctanggtt cccaggcagc acccctctc catggcggat 240
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<210> 864
 <211> 278
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700554402H1

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 gcccgactc cggagggtgaa atgccaaagt ggaggcntgc tgtggaagca cannacatct 180
 ttggctttga naccattccn gaanagtgcg ttgaagcaac naaggntac atccanngcg 240
 gacnatatag gtcggattcn aaaccgttaa ncaacnag 278

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 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700554403H1

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 ctttgacctc cttcagatct atacccttct tttctctctc ntctantttc naattctaca 180
 tcangggnac ggnngntcta cgggcaaana ttgtttnaac caagnatcgg gntntcancg 240
 cctggnnntt cccggcnaag aaactttngn ncccaccaan acna 284

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 <223> Clone ID: 700554404H1
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 atggctcttc ttcnngacgt gtctcatcnc cttccantca tcncngggct tcaaagtnca 180
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<210> 867
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 <213> Glycine max
 <223> Clone ID: 700554406H1
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 cngggcccaga agtgggaagg gtgagcatga aggagaccgt cacnaannag gtctcctnag 180
 ganagcccat ggtacggccc agaccgagtc aagtattggg cccattctct ggcgagcncc 240
 cgtctactaa ccggtgagtt cccaggcgan tacggctggg acatg 285

<210> 868
 <211> 276
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554407H1
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 gtttttcatc atcatccacg gcaagcaagt ccactgaagg aattgatgga actngtctca 180
 ctgccattgt cacaggagca tccagtggta ttggcactga gactacacgt gtcccttcat 240

gcgtgggtgtc catgtgatta ggggtgtgaga aatagc

276

<210> 869
<211> 224
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554408H1

<400> 869

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acaacacttg ttgcttcatt tttcttttaa actttactga gaaacagaac catcaatttt 180
ctctgccttc tcattgtgca ataaaattct taccttgaaa tctg 224

<210> 870
<211> 288
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554409H1

<400> 870

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ggcgcaattc cccccacatg caagcgcata gaggtcccag ctatgatgtc attcacgtag 180
gcaacggcta cgaaatccgt cgctataatt caccggtttg gatttcaaac agccccattc 240
aggacatttc tctcgttgaa gccacaagaa cgggcttcag gaggttat 288

<210> 871
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<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554410H1

<400> 871

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tgcaaggana gatggaaact catttatagc agcgattttc gtctcgaacc cttggtggaa 180
 gccgtcctgg tcctcccata ggaagactct tcctattatc ttggacaggt ttttcaagaa 240
 ttgacatctt gagcaaagat ttgataaca tagtggagct tcaat 285

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 <213> Glycine max
 <223> Clone ID: 700554411H1
 <400> 872

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 gacaactgac gngcactaga tgggtggttat tgtntgcac ctgccgtaaa gttactggga 180
 tacttggatg ttggaagaag cagctaaata tagcaaaaga tgcccggcgt gtagatgtac 240
 tatgctacag aatagtttga gctacaggct tttggaggna ttca 284

<210> 873
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554412H1
 <400> 873

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 tctccaacgg cgggtgccgt ccaatttcga cgcccaccgc caccaccatc gtcgtcgcag 180
 atcctccgat ccgaagcggc ggcgctcgag ccagtcgagg agaaaaancc gc 232

<210> 874
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554413H1
 <400> 874

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 cgctaggggt ttnaaagggt aaggattttn gattgntncc natctcatgc tgcaattgtc 180
 ggntttatgg ggggagctgn catcacaatt gcccttcaac agctcaaggg ntcctttgga 240
 ttgcaaagtt ttcaaagaaa actgatgtna tctcngtgag catc 284

<210> 875
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554414H1
 <400> 875

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 tttagactat gggtaataa atgaaaacgt gagaagagtc aatatgctgt cagagggtgaa 180
 ttataccttc gagcttctga gcttcagaaa gagggcaaaa agattatatt tactaatgtt 240
 ggcaaccac atgcattggg acagaaacca tgagcttccc tcgtc 285

<210> 876
 <211> 283
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554415H1
 <400> 876

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 aagagtcgct gcgccgcttg tgctttcccc ctgcacgcac gcggaaatat aactggagcg 180
 tcaaggcaat tcgcagaaag accaccggaa ctggcaggat gagatacttg cgtaacgtgc 240
 ctgccggttt caagagtggc ttcagagaag gtaccgaagc tgc 283

<210> 877
 <211> 285

<213> Glycine max

<223> Clone ID: 700554416H1

<400> 877

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ctttcgcgcg ancacgaagt attgggaacc agcaaaattt ctatggctgg cgaaccacta	180
tatccaatag cagtgcctat agatgagttg aaaaatgatg acatccagct gcggttaaac	240
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<210> 878

<211> 278

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554417H1

<400> 878

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tcgccctaag	tcatggcagg	aattgcaccc	gnggatcaca	gtttgatgtc	gtcaatatga	180
taccaagatg	aatgagctgc	ttacgtccga	tggtcaggnt	tctcacatcc	tangtgaggt	240
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<210> 879

<211> 163

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554418H1

<400> 879

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nttntncttt	tgagcngggt	ctcncngttc	ccncatcat	aag		163

<210> 880
 <211> 276
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700554419H1

<400> 880

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 ggcttgtaaa aagcngcata ggtaccaatt cncngggccn attgggggat tnaatnccgg 180
 cntngccatn angcnacttc cacnatangn ggtncagntt ggc nanggtt taaaaanggg 240
 gataatnaa ataannccaa gttgngaagg nccagg 276

<210> 881
 <211> 284
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700554420H1

<400> 881

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 attttcttct gtagatccat ctatctagct tcggagctgg caaatggacg tcgcagtcatt 120
 gccntccggt caccggtggn tcntcttcgg agnacgggtc aaanggntng ncttnantcc 180
 gnttccggtt cnntttnggg ttttcnagaa annacggtnn agttcagnat gtatcnccaa 240
 acncaagcan aancaggtcg nagaanaggg tttgnagtna nact 284

<210> 882
 <211> 272
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700554421H1

<400> 882

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 ctgtgggagt catcaagaac gtggagaaga aggatcctac tggagccagg gtcacaagg 120
 ngccnagaag aggaagtgat cgtgcgggtt ggttcacag gggatgtcgt ttcttatgg 180

tacaataaat gttggtttct tgcccttggt tcttcgtttc naggtagctt gtttttcgga 240
catagtttga agtctccacc atcatctcgc aa 272

<210> 883
<211> 275
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554422H1

<400> 883

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ctttncctta ncctcttccc anttaaactt antaaaggcc tcttnagcag ctaccaccan 180
tacancanca acaaccactc tccccacagc tgagacatna atgaggaatt tggcagaaaa 240
ggcatcaagt tcttggagtc tgataaacact cccat 275

<210> 884
<211> 286
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554424H1

<400> 884

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tcgagtccac aggggtccaa attgagcgtc gcagttttgc aggtctggct cgcgccggtt 180
gcatggtgta tgatatggga ctagccacca ccccggttg tttcatgagc atttggtgcc 240
tccattgcct atgatgcttc aatgatgatg anagcttctc acttgc 286

<210> 885
<211> 284
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554425H1

<400> 885

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 gtcgcttggc tatgttctcc atgtttggtt ctttgttcag gctattgtca ctggcaaggg 180
 ccctattcag aacctttacg accacgttgc tgatcctggt gccacaatg cttgggctta 240
 tgccactaac tttgtccctg gacaatgagg atgcctacat gcaa 284

<210> 886
 <211> 281
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700554426H1

<400> 886

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 aagtgttcgt tagttataca tttgttcaag ttgttgtata gattgattca ttattttaac 180
 gtactttgga gcattgcatg agtgattgcc ctctgattct tttgtgaagt caataaagtc 240
 cctataatta caaactgaga ttcagaagcc tccggtaggg t 281

<210> 887
 <211> 283
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700554427H1

<400> 887

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 ttacgatcnc gtactttacc ttggtataat tgacatattg caagagtaca acatgactaa 180
 gaagattgaa catgcataca aatctattca gtttgattca tatctatctc ggcggtggac 240
 ccaacattct actcgcgtcg cttcctggat tttattcaga aaa 283

<210> 888
 <211> 282

<212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554428H1
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 aaccagctcc tcagtctcat catcaacact tctactccaa caaggaaatc ttccttcgtg 180
 aactcatcag caacgcctct gatgctttgg acaagattag atttgagagt ttgacggaca 240
 agagcaagct cgatgctcag ccagagttgt tcattcatat ta 282

<210> 889
 <211> 280
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554429H1
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 ctgcagctga ttacgacact gtgtgggatg ttttataccc tctgatttct cctctaccat 180
 ttctccactt tcttctctta actctaagaa ggatctctat ttcactctct cgcaccgtcc 240
 caccatcatc gaccagggtg gaaagagctt tcaatggaaa 280

<210> 890
 <211> 269
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554431H1
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 atgaggctat tgcaaagcaa agttgccaaa gatggcggtt gactactacg catctggtgc 180
 agaggaccag cggactctgc aagagaacag aaatgccttt tccagaattt tgtttcggcc 240

agtattctta ttgatgtgag cagatagat 269

<210> 891
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 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700554432H1

 <400> 891

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 ctcggaacttg gacggcaccc tcttgggtgc ccctagcgcc ttctcttact acatgctcgt 180
 ngccatcgaa gccggcagct tcttcgtggg cttgtcctct tggatccgct ctttcgtgta 240
 ttccgttnaa tcttctcgaa accgggc 267

<210> 892
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 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700554433H1

 <400> 892

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 tacaggaccg cagttagccc actactaaag ggatcgaggt gggcctggcc catggctacc 180
 ttctgggtggg ccatttcgtg aaggccgggc ctctgaggaa caccgagatc gccgggcaag 240
 cangctctct cgccgctggg gggcttgtgg tgatcctcag cctt 284

<210> 893
 <211> 277
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700554434H1

 <400> 893

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cagctgagga caccattctt cctctacca tgttgtgcat gtgaatacag ctggggctgc 180
acctcctcct tctgttcttt ccggcagtcn gaacgtggat tcgtgtcaca cacacttatg 240
gtctctnaga aacctatngc ccctctgtct atgtgcc 277

<210> 894
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<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700554435H1
<400> 894

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tggcaactat atagaaaggg nattttccca agtgaangga gcattaaatg agaatttgta 180
gtgncnggac cnaattggcn gnaangntg ttanggttgc tgnnggaatc cgcctngnat 240
ggncnggnaa cnaaaantcn gnncttttcc cag 273

<210> 895
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<212> nucleic acid
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<223> Clone ID: 700554436H1
<400> 895

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tcntatcagt aggtngcntn taatccccct tanngaccnn ngnaggtntt aacnaactng 180
acanatccng agccntnang cnatngcggc tgggggcaga agnnaaa 227

<210> 896
<211> 277
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700554437H1

Table 1. Demographic characteristics of the study population	
Age	
Mean	65.5
SD	10.2
Range	45-85
Gender	
Male	50
Female	50
Marital status	
Married	45
Single	5
Divorced	5
Widowed	35
Education	
High school	10
College	20
University	30
Postgraduate	40
Occupation	
Retired	40
Unemployed	10
Employed	50
Religion	
Christian	45
Muslim	55
Health status	
Good	40
Fair	30
Poor	30

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<210>      897
<211>      284
<212>      nucleic acid
<213>      Glycine max

<223>      Clone ID: 700554438H1
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<210>      898
<211>      281
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<213>      Glycine max

<223>      Clone ID: 700554439H1
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327

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<223> Clone ID: 700554440H1

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 acaagnctgc gaccaaactc cgatgctgtc ctcgacgctt gcctcgagca ggaccagac 180
 agcaaagttg cctgcgaaac atgcaccaa accaattggt catggtcttc ggagaaatca 240
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 ctgaatgggt ctggacctgg ggtttcactc ccagttcatc cttctttggg agcagcttga 180
 agaaggttat tggctcaagg gtccccaaca caaagatttc ctctggaagc ttcaagattg 240
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 <211> 266
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700554444H1

<400> 901

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 gcgtgctttg tatggagacg actactatgt ctgcagattt cagaaaccag gcgaaatgga 180

agctcagatg gctgaagttg gcaactgggta tgttctcaaa aacatcctta caagtcgcaa 240
aactggctct ccataccttcc gcatgg 266

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<213> Glycine max

<223> Clone ID: 700554445H1

<400> 902

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gttgtnactt tggttcttcc gagagaaggg agccatatat agaaagtatt ttatggtgcg 180
ccgatgagca gaactgatgt tattggcagt agaaggagga ggattcttct ctgcttcggc 240
ttcagggtat ataagggcct gagccttctc ctctt 275

<210> 903
<211> 278
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554446H1

<400> 903

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tttcaccacc gtaacaattt ttccgcagct tcaacgcaac ntnanaacga aaatccagca 120
ttcactccgc tagcgtcttt nactcaaana tttggtgaaa tagtggaacg tttcgtgaaa 180
ctcccaaacc agaagccgaa gtttccaagt gaaaatggac ggtagtttga cgatgaagct 240
gaaccggccg ttacaatccg cgagtacctg gaggaagt 278

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<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554447H1

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 tncntncagn ttccgccang gncatgtaat cttctgantg ttctgcattc ccttttccac 120
 aataactana nggncttttt tctcctgcaa accttttcan ncttgactg tgggcagcga 180
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<210> 905
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554449H1

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 ggggcggggc ggggtgcaggc ccggttcggg tttggcaaga agaaagccgc cgccccgaag 180
 aaagtttcca gggggtcggg ctctagctcc gatagcccct gtggtatccg ggcgccaaag 240
 cgccgagtac ctggatngga nccttgtcgg agatang 277

<210> 906
 <211> 279
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554452H1

<400> 906
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 tttggnact ccnaggtna ttcgggttca attgtanttt naanggnca naggatgatt 180
 ataagcacag tccagatgat tcaaccngtn aacaantcct gtnattggnt ncngcncna 240
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<210> 907
 <211> 247

<212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700554453H1

 <400> 907

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 gagnagcnnt aagttcccaa gtaccacacac ggccaantcc tgaaggggag catcacgtn 180
 aatctcatct ggtacggaac ttaccccca tccaacggtc cataatcgtg gattcataaa 240
 ctcataa 247

<210> 908
 <211> 280
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700554454H1

 <400> 908

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 caaccntcct tccccagaa ccttcggtt ccaccactt tnaactcctc tttnancctt 180
 tgtgctcttn atgcctccca aagnaacagt tcgtaggan gtgctagtgg tgctgctgaa 240
 ggtgataggc caaggagat attggtgcag cattgttgg 280

<210> 909
 <211> 283
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700554455H1

 <400> 909

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 cttattagag aaatccacgt tcgctcctcg caatgttgat gtcgttttcg aaccgatct 180
 cctttaaacg actcctggga atccccaac acgctgggtg aaaagcctcc tncatgnana 240

aaaaatcccg aaaganagag acatccctga cgatctgggc ttg

283

<210> 910

<211> 279

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554457H1

<400> 910

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cgccctcag atcgtaagg gaaaacaagc aagaggggtgc actttgtgag gaacctcata 180
agagaggttg ctggttttgc accctatgaa aagcgataa ctgagttgct gaaggttggg 240
aaggataaga gggcatgaag ttgcaaagag aaagcttgg 279

<210> 911

<211> 277

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554458H1

<400> 911

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cctgaaaaca tgcagaaaaca gttagatggg gtagtgaagc gcctttttac actcttggtc 180
ctttaacaac tgatattgcc cccggctatg atcacatcac ctctgcaatt ggtgctgcca 240
atattggggc attggtatgc tcttctctgt tatgtga 277

<210> 912

<211> 197

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554459H1

<400> 912

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 ttncaactan cggatcanta tgttccttaa ntctcacagc caccctctta aaccgtgttt 180
 cctcttccac natnctg 197

<210> 913
 <211> 273
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554460H1
 <400> 913

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 gaaatccact accactgggc accgatttac aagcttggag gcattgacaa gcgtgttatt 180
 gagaggtttg agaaggaagc tgctgagatg aacaagaggt ctttcaagta tgcttgggtg 240
 ctggacaaat taaggctgag cgtgaaagag gaa 273

<210> 914
 <211> 276
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554462H1
 <400> 914

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 ganaatcgac cttctcctct gctggngat ttccaagccg tgaggaacga gcatgacttg 180
 aagagcctga acgtccctct caaataccgc tccatgaact ccttctggaa gtactattcc 240
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<210> 915
 <211> 274
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554466H1

<400> 915

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ggaaagctca gtcgagatct aggtctaggt caagatctag gtcgangtct angcctagac 180
aaaggccaag atccccgttct agaagtcang gcangncnag atcaccaatc anggaangnc 240
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<210> 916

<211> 272

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554467H1

<400> 916

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acagggaccg cantgagccc atactaagag ggatcgangt gggcctgggc catgggntac 180
ttcnggtngg cccntcntng agggcngggc ttttngggac aacnagnngg cngggaanca 240
agggttttttn gcggttggtg gntnttggtta nc 272

<210> 917

<211> 276

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554470H1

<400> 917

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ttctgcagct gattacgaca cctgtgggga tcgttttata ccctctgatt tctcctctac 180
cattttctcca cttttctcct ctaactctaa gaaggatctc tatttcatct ctccgacgtc 240
ccaccatcat cgaccagggt agaaagagct ttcatt 276

<210> 918
 <211> 277
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700554471H1

 <400> 918

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 aaaanganat attcgngtgt tctgccgtgt ccgacctttg ctaccggatg atgggtcctgg 180
 aacagatatg gttgtntcat atcccacgtc aaccgaagct cttggccggg gtattgaatt 240
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<210> 919
 <211> 274
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700554475H1

 <400> 919

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 cggagctgtc aacagagtct tttgaacctg aatggttctg gagctggagc ttcagcncca 120
 nnttcagcct tctttgggac cgcttgaaga aggttattgc ctcaagggtc cccaacagca 180
 aggtttccgg tggaagcttc aagattgttg ctgtagaaga gaagaaagag attgaagaga 240
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<210> 920
 <211> 266
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700554477H1

 <400> 920

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 ctttttgggtg ctacttacca agggcacact cgaccgatac cgtttctttc accttcaaca 120
 agttcaaccc agtcaaccaa acattatgct ccaaaaagat gctagtattt catcctctgg 180

ggtgttataa ctcaccaaag ttggcagcaa cggcgtgccc acctcgggat ctctcgggtcg 240
tgccctttac gctgccccaa tccaga 266

<210> 921
<211> 262
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554478H1

<400> 921

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ccaacaagca aagttgatat cattgacagg ttgcccacgg cttttggggtt gggtcgtctc 180
gttgtgtcac ccgatcacc tgaaaccaag aaaacttgca acaaattgtc atcaaccagt 240
tttcaaaggt ggcacaacat ga 262

<210> 922
<211> 272
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554479H1

<400> 922

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tggttgacat ggaaggtaat gtcttcaaaa tgggtgggaaa tattatgtgt tgccagtaat 180
agagtcacat tntgggtggaa taagagtagc cgcaactgga aaagaaagat gccctctcat 240
gttgataaat ctgccgatcc gtatgataag gg 272

<210> 923
<211> 266
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554480H1

<400> 923

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 ttgattgaga aagtgtgtta gggtaagagt tgtgtcgtgt ccacgagaca ctgggagaaa 120
 gaaagtgtgt gtgnnttggt taaactgaat ttcatntn cttaggccat ggccacnntg 180
 ttcggaaaaa ccanccttan cttnancggg anaannaaaa anggcntttg gtttngggna 240
 aaaanaaggg ncaaccccc cccnaa 266

<210> 924
 <211> 272
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554482H1
 <400> 924

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 gtggtgtgog acgagcacgg catagatccg acggggaagt acgtcggaaa ctcagntcta 180
 caactcnaac gcgtgaacgt gtatacaacg aagnttcctg cnggcggntt gttccaagcn 240
 cntgntngnt gacctngaac ccngaacatt gg 272

<210> 925
 <211> 266
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554483H1
 <400> 925

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 catcatcacc ncaactgtga gagaggatat ggcaaaggaa tacgagaaag ctattgaaga 120
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 nntaanggct cncataggaa acntcannng ntggaatccn taatcggagn cgnaagccag 240
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<210> 926
 <211> 223

<212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554484H1
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 gnttcnttat gggtagatgg acaacaatcn aattcccaca atagtcttca agggtngcc 180
 aanaacttcn atgcttcata acatgcataa tcttnngcttc tcc 223

<210> 927
 <211> 277
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554485H1
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 aggaaattta cagggcgcaa ggtgtggcat gttgggcnaa gctccctcca tggtgcaaaa 180
 gacggtgaaa agtagtactg ttgatgagag tagacacgat tgtctcacgt ggcttgatca 240
 aagaaagaat cttcggttct ctacatttgt ttcggaa 277

<210> 928
 <211> 277
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554487H1
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 ctttggtttt tgcagtatta gtagcacttc canaatgtg aatgccgttt ctcttcggcc 180
 tagtggttct gatgggggtn atgcagttca attacctcaa gagtcttctt atctacaatc 240
 aaagaccaa gtgttggtgt cgagtcnnc tctgatg 277

<210> 929
 <211> 272
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554488H1
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 tgggtggttga agtcagagag cgtgtacttc caaggagagg aactttctgt tgtcttgacc 120
 aaaattaaca tgggtgattt gcattgggag ctacagaaga tagagtgtgt ggaacaattg 180
 acattgagaa agccctgact gaggggtgtca aggcatttga gcctggacta tggctaaagc 240
 taatagggga atctatatgt tgatgaagtt aa 272

<210> 930
 <211> 115
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554490H1
 <400> 930
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 ttggtttttt tatcacatga tgggtttttt aaaaaanann naaaaaaaaan acang 115

<210> 931
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554494H1
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 ggtaaaatat ctctcaactt caaagcctct ctttatccct taaacaaaca gacacgcacg 180
 gagagacaaa tcctactact aactcttggt tatcttagtg tgatcatcaca ctgtggacgg 240
 ttctgtgtca aaacaaacca agattttga 269

<210> 932
 <211> 272
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554495H1
 <400> 932
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 caggcccgcc ctccggccaa gcccgccca tccccttcca tcntcgccgt tcacgccgcc 180
 gatcccgcc naaaaccccg tcgtaccga caagcccaag cccaagccc aacaacctcc 240
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<210> 933
 <211> 272
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554496H1
 <400> 933
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 aaagtgggna aaaatgggtt gggtcggttc aaaccgacgc tgaagaggaa gaggggtccg 180
 atgaggggtct ggttaagctt ccaaaaatca atgggtgtcc tcgtgggtgg aaacctatt 240
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<210> 934
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554502H1
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gaccaaccca ggtgaagccc atgaaggtca tgatgggtga tgcaaganaa aagctagaac 180
atgtccatgt gcctaaacac aacaagcacc accagcccct ccccaaaaac aaagttgctc 240
ctaccccacc cgtagtaatt aattaagctc aatcactctt tcacataatt 290

<210> 935
<211> 198
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<213> Glycine max

<223> Clone ID: 700554505H1

<400> 935

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ttgtttattc tctgttatag taggttttgt tctgatactt ggaaattttg ttttatcaat 180
aaaaagctga ttggcaac 198

<210> 936
<211> 291
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554509H1

<400> 936

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atgaatgggt taacaagggc gacgcaccgg cattgccaga gactcttaaa aattacaaca 240
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<210> 937
<211> 70
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554510H1

<400> 937

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<210> 938
<211> 284
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554512H1

<400> 938

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aaggagatag cgtctcttat cgagaccggt tcgtactcga aggaagtctg tagaattgct 180
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<210> 939
<211> 285
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554513H1

<400> 939

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<210> 940
<211> 280
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554514H1

<400> 940

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 ctagtgtgtg acttcattgt gcttgtaatt gcttcttggg cagtgaatca tgggattcaa 180
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 agggaaacat gacaatgggt ttttcgtaat ttgtctctgg 280

<210> 941
 <211> 291
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554515H1
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 ccagcattcc cgctctgcta tgcaggncgg gcattgacaa gctcgccgac gctgttgggc 180
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<210> 942
 <211> 282
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554516H1
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 tgttgaaggg tctcgtgaaa tcaatctagt tttgagacct gtttactggc agaggtgacg 240
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<210> 943
 <211> 290

<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554517H1

<400> 943

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aatccatggc tggcttcccc acgaggaaga ccaacaatga cattacctcc attgctagca 180
acggtggaag agtacaatgc atgcaggtgt aggccaccaa ttggcaagna gaagttcgag 240
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<210> 944
<211> 285
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554518H1

<400> 944

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gatattgaaa cagccacaca gttggacatt gttgccgagt ttgagataga caaggaaacc 180
cttgagaaaa cacctgaatc caacgaggag tacacgtgtg gcaacagtgg tggatctaaa 240
caacgtggtg cctaggacct tttggtcttt ggttttggca gatga 285

<210> 945
<211> 278
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554519H1

<400> 945

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gaggttgtag acaccaaagg gcactttcct cagctaactg caagccttca gctagttgat 180
gtgattaagg gtgttctgga tgataattct cagtttcatc ctttgtttag ttttataacct 240

gtttctcatt cattataggt tgagtagncc gtgagatt

278

<210> 946
 <211> 290
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554520H1
 <400> 946

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 cactccctct ccgccatcaa acaccctctc cgccgtcgtc gtagacctct tctccaccga 120
 cgccttogac gtcgcccgcg aattcaatgc ctccccctac gtctttctatc cctccactgc 180
 caccgtcctc tnccttggtc ttccaccttc cccacctnc gaccagcagg tccagtgcga 240
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<210> 947
 <211> 286
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554521H1
 <400> 947

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 tctcttcccc atccttggtt ggcaaggccg tgaagctggg cccatcagcc cccgaagtgc 120
 ggaggggtcag catgaggaag accgtcacca agcaggcctc ctccggaagc ccatggtacg 180
 gccagaccg cgtcaagtac ttgggcccac tctctggcga gccccogtcc taccttact 240
 ggcgagttcc caggtggatt acggctggga catgctgggn ttcggc 286

<210> 948
 <211> 286
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554522H1
 <400> 948

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gtgtcacnc tgetctctt tcccctactg accgtagggg agctcgtgga ggagcagcca 120
ctagtccctca agtaccacaa cggccagctc ctgaagggcc gcatcaccgt caatctcatc 180
tggtagcgca ccttcacccc gatccaacgg tccataatcg tggacttcat aaactcgtta 240
agcagcgcg caaacgcgcc tctccctcgg accgccacgt ggtgga 286

<210> 949
<211> 284
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700554523H1
<400> 949

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tgtacaaaga gaaaggtggt agggtcggag aaggatagtt tggatattttg caagcaaaat 180
gagaggtgta agatacacat atgagagtgg ctccatcaaa tgccgttatc acctactatc 240
aatccaggcc cataaaaaga agcatttcat ttttcggntc ggnt 284

<210> 950
<211> 283
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700554524H1
<400> 950

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caggctacca aaggttcctt ctccgaatga aaactggcta tggtagcgt tcttcggagg 120
taaaatgcgc aagttttagg cttgctgtgg aagcacanna catccgagcc ttaaaaccat 180
tcctgaagag tgcgttgaac caacaaagga ctacattaat ggcaacaat ttagatcaga 240
ctctaaaaca ttaaccaaca agctttcttt atgctagtga agc 283

<210> 951
<211> 287
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554525H1

<400> 951

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 aagagtcagg aagagttgct tgaactgatt cccaaaattc aggttatggc tcgacccca 180
 ccttttagaca aacacacact ggtgaaacac ttgcgtacca cttttgggga agtggtagct 240
 gtaacagggtg atggaactaa tgatgccccg gcacttcattg aagctga 287

<210> 952

<211> 284

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554527H1

<400> 952

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 acctctttcc ccagaacctt ccgtttccac ccactttcac tccctctttc accctttgtg 180
 ctcttcatgc ctcccaaagc aacagcttcg tatggcactg tgctagtggg gctgctgaag 240
 gtgataggcc aaggagagata tgggtgcagca ttgttggtaa aaga 284

<210> 953

<211> 281

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554528H1

<400> 953

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 catatttctg gttctaata tccccatgcc tctgacaatg gccaccaata tactctccaa 120
 gatgagggtg acttcaagaa gcttgggtctg caagttgttt caggcttgag tggtagagctc 180
 accaatgtta aaaaagcagc tgctatggat tcggacgtgc tcagtagtga tgttgctaaa 240
 cttccagagg aatcgaaaaa gttgtgcaat tgtaaatga a 281

<210> 954
 <211> 281
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700554529H1

 <400> 954

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 gaccaaccca ggtgaagccc atgaagggtca tgatgggtga tgcaagagaa aagctagaac 180
 atgtccatgt gcctaaacac aacaagcacc accagcccct ccccaaaaac aaagttgctc 240
 ctaccccacc cgtagtaatt attaagcttc aatcatcttc a 281

<210> 955
 <211> 278
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700554530H1

 <400> 955

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 agtgacggag ctgagcaaga gcaacaagga ccgaatcaac acctcttcgc cattcaattc 120
 cttcaagaac aactacctca tcgtctattc cctcatgatg gctggagatt ggctacaagg 180
 tccatatgtc tactaccttt acngtacata tggatatggg aagggagnca taggacaact 240
 cttcatgctg gttttgggtc tccagctctt ggaaaatg 278

<210> 956
 <211> 280
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700554531H1

 <400> 956

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<400> 959
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 tagtctcaa gtaccacaac ggccagctcc tgaagggccg catcacgcgc aatctcatct 180
 ggtacggcac cttcaccccg atccaacggt ccataatcgt ggacttcata nactcgtaa 240
 gcagcgcgcc aaacgcgcct ctcccctcga ccgccacgtg gtgg 284

<210> 960
 <211> 283
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554537H1

<400> 960
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 taccactact agtggtcact catctattta ctctgcactt acattgcaa gaaccaccca 120
 aattcaccca accttgtttt ctcccaccac caagttcttt tcttccaaaa gcccctcata 180
 ttcaggtott tccaattggt tctcaaacac ccttttgtca agacctttgc tttttgctgt 240
 caaggettca tctgggggtg gctcagaagc atccaaacag gag 283

<210> 961
 <211> 281
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554538H1

<400> 961
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 cttctccttc ctcttcatct tccttccctt ctctcattca agacaggcct gtttttgctg 180
 cccctgcccc catcatcacc ccaactgtga gagaggatat ggcaaaggaa tacgagaaag 240
 ctattgaaga attcagaaat gttgagggag aagagtgaat c 281

<210> 962
 <211> 281
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700554539H1

 <400> 962

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 tgcttttaac tatggagtat acttgaaaat atgatgccac attgatgctg gattgaccgt 180
 cattaactat gaaaggaggg aaattctttc atgtcatatc caaattatgc gtgtgtgtct 240
 gtggatgttt tcatatattg gaagccatct atgtagaacc t 281

<210> 963
 <211> 281
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700554540H1

 <400> 963

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 ccatggctgc ntccgtctcc actgtcggag ctgtcaacag agctcttttg aacctgaatg 120
 ggtctggacc tggggtttca gctcccagtt catncnnatt tgggagcagc ttgaagaagg 180
 ttattggctc aagggtcccc aacacaaaga ttcctctgga agcttcaaga tgttgctgta 240
 gaagagaaga aagagatgaa gagaccacgc agaccgacaa g 281

<210> 964
 <211> 284
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700554541H1

 <400> 964

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 ggagcaacac tttgcagcaa aagtctactc agtccatttc caaggntttt ggtttggaac 120
 ctggtggagc taaaaaggtc acatgctccc ttcaggctga tcttaaggac ttggctcaca 180

agtgtgttga tgctaccaa attgcaggat tgccttgc cacctctgcc ctggtgtct 240
ctggggcaag tgctgaagg gttccaaaga ggctaactc gacg 284

<210> 965
<211> 283
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554542H1

<400> 965

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ccaacttgat acctctgatt ctttctttgc ttagaattcc acagaatatg gagagncgt 120
cttttcaatc actccccacc ttggaattc aagggtttga gcaaggagga ggaagactca 180
ttgctagggc aagtagaaat atggaggtag atgacatgct tcacggactc cgtggcttga 240
aagctgtcat agagctcgta tagcggacat actagaccgt tag 283

<210> 966
<211> 282
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554543H1

<400> 966

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cacgtccaat tcccttttag tgtttgcttc ctcttcctc tccagtctg caaaaaccaa 120
gttcctgccc tcaacttcta gattttctgt caagcgccg tacttccttt cccaaactta 180
tccgcgcatt gctgtgaaca agccctccat gaacctgttg aacagactcg ggtttggcag 240
cgcaagagca acagagaaca ggattcatcc attcctcagg tc 282

<210> 967
<211> 269
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554544H1

<400> 967

<212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700554547H1

 <400> 970

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 tcctaattga caaccatggc ggggtgcgtgc agagcaocca tttgccatct tcctccgcag 120
 aagcccaaaa ccagaatcca gaattctcac agcagaagag ctcaacttcc aaataggcgt 180
 ttgttctctt tctctctgcc tctctctagt ttctttctcc ttctgttcc aagctttggt 240
 gatggtaaca agcaatcata tgataaactt caaagtgggc 280

<210> 971
 <211> 284
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700554548H1

 <400> 971

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 aacgacatca ccaactnctct ccgatcaact acctctttcg tcgccctaag tcatggcagg 120
 aattgcaccc gagggatcac agtttgatgc tcgtcaatat gatagcaaga tgaatgagct 180
 gcttacgtcc gatngtcagg atttcttcac atcctacgat gaggtttatg acagttttga 240
 tgctatgggc ttgcaagaga atctcctgag aggcntttat gcat 284

<210> 972
 <211> 283
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700554550H1

 <400> 972

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 caagcctacg gtgatcatat ctgtataata acaaaacaac atttggaacc taacttgggt 180
 gggctcactg ttgagcaggc tatccagagc aagaagctgt tcatcttaga tcaccatgga 240

ctatctcatt ccatatttga ggaaaataat gcaattacca cag 283

<210> 973
 <211> 279
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554551H1
 <400> 973

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 gcaagttggg agccaaggca ttcgaggtag tgtcataggt ttccatggca gcagtatgta 120
 aaagtcggag ctgttcttcg tcaatttggg tatactgtgg tagctttaca tggctgtttg 180
 agaacagaaa ttcagacacc tagatcaggt agagccatgt tcaaggaccc ctggcattcg 240
 gctggcagca gaggtatcca aatacttgac caatttcga 279

<210> 974
 <211> 177
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554552H1
 <400> 974

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 gatgccaaagt tccgacatgc cttccaaaac tctaaaactc tctctctccg acaacaagtc 120
 cttaccctct ttgcaactac ccttcgcac cacagatatc tctcaacgng caccttc 177

<210> 975
 <211> 275
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554553H1
 <400> 975

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 gaaggccaag gataaagtga tgtttaagaa gaaagaaggg gtgcctgaag ggctgtatat 120
 gtgaaatact atcctctatc atcctcgctc ctctgtctt tttttcaatg ttctagttat 180

gcgaacaaat gataattcat ttgtattatg cgaacaaatg tcagttttat ttggaggctt 240
gaatctcaac aacgatttaa tcaatatagt tttct 275

<210> 976
<211> 284
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554554H1

<400> 976

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acacgtgtgg acgggtactg gaacgcgccg ttgggtcccg aaaacttcgt tccgggaaaa 120
tacctgggtcc caccgggctc ctcgtagcga ggactcaacg accgtttagg aatcggcgac 180
ctcagaacct cgacgggtggc actgtgcgcg tctctcttta gttccaaacc tncgattccg 240
ctggcctttca acaacctcaa tcggaggcag cgttcaaggc ccaa 284

<210> 977
<211> 276
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554555H1

<400> 977

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aangcctaata aggtgttggt ttacttgacc ttgaactcac tanaaaatgc aaagatgatg 120
ccaactgagg canntataa tgattgcac cggtagggag atcccaagca ccgcancact 180
gatgttaaga nggctctgaa agtgcattg agcagaatat ggtggtgaaa cagaattnng 240
gtgcttgccg ttntntgtn gtangaagta nacttg 276

<210> 978
<211> 277
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554556H1

<400> 978

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 gcctccgggc cggcggtgga ggagaagaag gttgttccgc cgaagggaag cactaccgcg 240
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<210> 979
 <211> 280
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554557H1
 <400> 979

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 ctagaacaat gaacagcagn tcattctttg atcttttagag tttgtatagg atatatatta 240
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<210> 980
 <211> 280
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554558H1
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 gtgacggaga cggtgagggg gtcacaccag ttcaagatca cggggtactc gctctcgaag 240
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<210> 981
 <211> 273

<212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700554559H1

<400> 981

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 cagatgatga tgctgatcgt gttcagagtg gaaaattgag tgagagtagt ggttatgctg 180
 gcagtgatct ttatgattac aaggcattgg aggtgatgat ctgatgttgg atcctccata 240
 gtaaccagct aagacgaaat gctaattctga agc 273

<210> 982
 <211> 282
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700554560H1

<400> 982

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 cctgtccttc gaccatccg caccaatcac tccttctctt cccctttccg ctctctcccc 180
 tctcccgcgg ccagaaaacc cctaaccgtc ttcgccatgg cccccaaaaa gaaggtgaac 240
 aagttacatg gataagtgga agaaggagtg gtttggagcg gg 282

<210> 983
 <211> 269
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700554561H1

<400> 983

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 tttggaaaca agctgaagga aattgaggac aaaatctcag ggaggaacaa gaattcaagc 180
 ctaggaaccg taatggaccg gcgcagatgc cctacactgt gctcttccctt accagtgggg 240

aaggccttac tttcagagga ntcccaaca

269

<210> 984
 <211> 280
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554562H1
 <400> 984

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 agtgaaaagg accaacaaca acaattgcag ttccaatacc acaaaggccc tcttctcagt 180
 ggcaaaatct ccgtaaatct catctggtac ggtaacttca agccttccca gcgagccatc 240
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<210> 985
 <211> 276
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554563H1
 <400> 985

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 ccaactgagg caaatataac tgattgcatc cggatggag atcccaagca ccgcaacact 180
 gatgttaaga aggctctgaa agtgctattg agcagaatat ggtggtgaaa cagatttagg 240
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<210> 986
 <211> 284
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554565H1
 <400> 986

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 ctcacccctct gtttactccc agcggaatca tagaatttta taaaaaatac ggtccttcta 180
 tattcaatga aactagtggg tgggataatg cattccccggg tcccaagtac gacggcaagt 240
 tcttacataa taaagcacgt gagttgctgc aggatacgcg attg 284

<210> 987
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554566H1
 <400> 987

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 aacagcaaga atattttgat ccaaagttgg ctgatgatga gagagaaaaa ggaaatgaat 120
 tcttcaagca gcagaagtat cctgatgctg tgaagcatta cacagagtct atacgaagaa 180
 atgccaaaag atcctagggc tatagtaaca gagcagctgc tacactaatt gggggcatgc 240
 ctgaaggtta aaggtgcaga gaagtgcnt 269

<210> 988
 <211> 275
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554567H1
 <400> 988

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 cactggccac ctgatctaca agcttgaggg cattgacaag cgtgttattg agagatttga 180
 gaaggaagct gctgagatga acaagaggtc tttcaagtat gcctgggtgc tgataagctt 240
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<210> 989
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 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700554568H1

<400> 989

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 nncaacagct atggtgttat tgtagagact gagaagagtt acatcgagac tggtgtcatg 180
 gatgttccag cagctgagca tgatgggaag tgcaagtgtg gcactaactg cacttgcang 240
 gactgcacct gtggccataa ggaatatgta gaaaag 276

<210> 990

<211> 275

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554569H1

<400> 990

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 caagttgtgt tggcacttca cctctatatt taccagttgg tattggaaat tttcctcatg 180
 ctcatgttaa gcttactaga ccaaacattg ttgggatgaa accctaccat ataacatcag 240
 aaaaggagaa ttaagattgc tacatgcaaa atcca 275

<210> 991

<211> 280

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554570H1

<400> 991

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 nnnnnnnnnn nnnnnnnnnn nntgtgatgg gagttgccgc aggggctagc caaatggcct 180
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<210>      992
<211>      261
<212>      nucleic acid
<213>      Glycine max

<223>      Clone ID: 700554571H1

<400>      992

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tacctagact atgaactatt ttacttcagt tttctttttg taatgtatga tgaacctcaa  180
agaaagggtc agagacgcag acaattcctg tactgtatga actataaaaa aatgtttgga  240
ggtaaagaaa ttattttgtg c                                           261

<210>      993
<211>      281
<212>      nucleic acid
<213>      Glycine max

<223>      Clone ID: 700554573H1

<400>      993

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ttcagcntcc attctangct ctcccaacng nnagtctctg atccgaagag cgaaccataa  120
tggaagagta aattacngga aaccgaataa ccgtttctcc gtgaaagcct ccgccaaga  180
gattgtnttt gaccagcatt ccgctctgct tatgcaggcc ggcattgaca agctcgcnga  240
cgctgttggg nnnagtnttg ggcccagagg gaggaatggt g                                           281

<210>      994
<211>      277
<212>      nucleic acid
<213>      Glycine max

<223>      Clone ID: 700554574H1

<400>      994

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ctcaacacac tccatttaag atcttattca aagagggagg ctgtggaacc ttcattcccc  120

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ttttcttcaa tttgattact tcagtgaggc agtataatca acacactnat atgcagacac 180
 aaaattatgt ggatccttgc aggcatctca gactccagtt gatgagatga tgagacagcg 240
 tatgttgatc ctaatgatcc aacaaaaata ttctggc 277

<210> 995
 <211> 279
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554576H1
 <400> 995

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 gcgacttcga tccccatccg agtcgccgga atccaagcgt gcgccacctc gggccgccga 120
 agggccgatc ccgatcgccg gagagcctcc tccgccaaact ggtggacccc gctgttcggc 180
 tggctcctccg agccggacta cattgactcc aacaacaaag catcgagtct tcaaccggca 240
 aagccggaaa ccggttacgg cggagaggag tcgaaagcg 279

<210> 996
 <211> 276
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554577H1
 <400> 996

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 ctcttgaaat caagggtgag gctctggttc cgtcttcttc gtcgatagct ccagtaatca 120
 attccttcgc gctagatcat ccaacgatga gcaaccttca atgttgcttc aagaagttgg 180
 tgctgctgtg tcagtcttgc ttggttttgc acctccttcc accttttctg ctgccagctc 240
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<210> 997
 <211> 253
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554578H1

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cgtgccactg gtggcaagaa gaaggcatgg agaaagaaga gaaagtatga gcttggggtg 120
caggccgcaa acaccaagtt attcaagcaa caaaactatc cggaggatta cgtgttcgag 180
gtggcaatgt taaatggagg gcntgaggtt ggataccggc attactctgg ggtagtgaa 240
gcntttactc gca 253

<210> 998
<211> 275
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700554579H1

<400> 998
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cagagatggc ttcgcggtgc tggccttctg atgctgagct aaatgaattg agagagagag 120
tttcgaaaat agtggatctg aataaagagg aagttcgagt tgtggatatc ccctatcgaa 180
tatgtccttt gggggcacac attgatcatc aggggtgggac cgttgcagct atgacaatca 240
atnagggaaat acttctgggg tttgctcctc tggca 275

<210> 999
<211> 279
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700554580H1

<400> 999
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cgccctctct tcaatgccgg ttcctctac tacaagtcgt ctttgctga tgaagctgtt 120
tacgacaagg agcgaccgg agtncacatg gccgaagcag gtgaatgcta ccacttgagg 180
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taganttacc gncanagaan ttcacacctc gtgtctgtg 279

<210> 1000
 <211> 276
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700554581H1

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 ctttttcatt tgcctcctta acagaggatg acgattgac cattcatatg tatggtttca 120
 tggcaactat atagaaagga tatttccaca agtgaaggga gcataaaatg agaatttgta 180
 gtgtcggaac caaatttggc ggctatgggt gttaggtttg cttgatgata ttctgcttga 240
 tattgacctg gcaacaaaaa gttcctgctc atttcc 276

<210> 1001
 <211> 274
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700554582H1

<400> 1001

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 atacaagaag cttctatgca gtgtggatct tacgaaggac ttctttttca gctactccta 120
 caangtnatg nttagtntnt aatggnantt ntctgtttgg aanntnnctt gggnggatc 180
 actgttganc ctttttgttt ggaatgagtt cttactcgt ggaatcagga atagtctcca 240
 gaatacttcc tggactatag ccttagtgta ggct 274

<210> 1002
 <211> 276
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700554584H1

<400> 1002

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 tcttgacca agatcactcc aatctccatt tggcttctcc agaaaagcct cctttcttgt 180

taaggcagct gctaccccc ctgttcaagc aaggatcaga cagacctttg tggtttgcac 240
caaagcaaag tctttcttac ttggatggca gccttc 276

<210> 1003
<211> 275
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554585H1

<400> 1003

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nggaaaatct ttctccggcg acctggaatt ccgacgaagg tagttgcggc tccttcgtcc 120
cgaaactgag gccctcaaag tataaacttt ggtggtggtg ggtaggatct ggcgggtgat 180
gatgggatct taccatatgc ccgttggaga ctccggcgag gttgctttgg accacaagct 240
tcttccgtca taagcttatg accttctaata aatta 275

<210> 1004
<211> 274
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554586H1

<400> 1004

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ctatgatgca aatgacacag cacaatttgc tgagctcttg acacaaggag aactgacccg 180
tagagcatgg gaaaaggatg ttcaggtgat gaatgaaggg acctgggaca catcccaatg 240
cacaagattc ctgaaaacat gcagaaacat taga 274

<210> 1005
<211> 278
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554587H1

<400> 1005

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 tctatgatgc aaatgacaca gcacaattnc ctgagctctt gacacaagga gaactgaccc 180
 gtagagcatg ggaaaaggtg gttcaggtga tgaatgaagg acctgggana cattccaatg 240
 cncaagatth cctgaaaaca tgcagaaaca nttagant 278

<210> 1006
 <211> 275
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700554588H1

<400> 1006

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 tggaaacccc gttaacctca gatgcgcaac caggtctgct ccatacacia ctacacctgc 120
 caccttcaag accgtcgac tttctccaa gaagaagcca gctccacctc caaagaaaaa 180
 gctgcccgt gtatccccg ccaatgagga actcgccaag tggatatggtc ctgacagaag 240
 gatcttcttg cctgaggtct ctggacgat ctgag 275

<210> 1007
 <211> 265
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700554591H1

<400> 1007

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 aagatggagg agcacaatth cctcagcgcg gatgaggcct gcaatthctt ctongatgaa 120
 caagcaccga ccttcaatg gtactgtcca gaacagtgga gctgagaaaa gaaacatgga 180
 aattaaaccg cttttagaaa tttttgttg aaggtagaaa atgaaatact gtgcaaaaga 240
 aaaagagaga acaganatca atggc 265

<210> 1008
 <211> 261

<212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554592H1
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 gaacaagcac cgaccctcaa tggactgtc cagaacagtg gagctgagaa aagaaacatg 180
 gaaattaaac cgntttagna tttttgtttg aaggtagana tgcaatangt gcaaaagaaa 240
 aagagagaac ggnttcattg c 261

<210> 1009
 <211> 271
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554595H1
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 actggtcacc tgatttaciaa gcttgagggc attgacaagc gtgttattga gaggtttgag 180
 aaggaagctg ctgagatgaa caagaggtct tcaagtatgc ctgggtgctg gacaaactta 240
 aggctgagcg tggaaagagg aatcaccntg a 271

<210> 1010
 <211> 111
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554596H1
 <400> 1010
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 ttttctggca gtgaagagag ttttngtttc tgatnccaaa aaggaacaga a 111

<210> 1011
 <211> 287

369

<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554601H1

<400> 1011

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taaaatgcgc aagttttagg cttgctgtgg aagcacacaa catccgagcc gttaaaacca 180
ttcctgaaga gtgcgttgaa ccaacaaagg actacattaa tggcgaacaa ttttagatcag 240
actctaaaac agttaaccaa caagctttct tttatgctag tgaacgc 287

<210> 1012
<211> 123
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554603H1

<400> 1012

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acactacttt cccaacccaa tgcgccttaa agagacttga ggtgacagaa ttctctgggc 120
tta 123

<210> 1013
<211> 277
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554604H1

<400> 1013

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caaagagtac gataaggatt tgattttoga tcaatttgaa agaacttata catttcttgc 120
aatttttagtt gtgtacccat aactccatgc atgcaactcg ttgagctata tcaataaatg 180
ccgtttgtat gtgttagtat ttatatatat atacctttcg gcagtttcgc tgctattggt 240
gtggactatg tgttcctgta atccaataat aagaaag 277

<210> 1014
<211> 283
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554607H1

<400> 1014

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gctgaaaagg gtatcaaata tgagtccaaa gaagaggact tgcagaacaa gagccctttg 180
ctcctcaaaa tgaacccggt tcacaagaaa atcccggttc tcatccacaa tggcaaacc 240
atttgatgaat ctctcgttgc tgttcagtac atcgaggagg tct 283

<210> 1015
<211> 282
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554608H1

<400> 1015

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gagagccccg aactgcgctg gtctttcatc agaaaagtat actccataat cgccatacag 120
ttgctcgtaa ccacgctcgt cngcgccgctc gtcgtcaccg tccgccaat cagcgtcttc 180
ttcgccacca ccggcgccgg attggtcttc tacatcgtcc tcatctttgt ccccttcac 240
acattgtgtc cactttacta ctactcccag aagcatcccg tc 282

<210> 1016
<211> 101
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554610H1

<400> 1016

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<210> 1017
 <211> 282
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700554611H1

 <400> 1017

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 tacgggtccat gccaccgtcc aagacatcaa ggatgaaaat gagacgaaac atttggagga 180
 aatggaagga gcaaagagtc gtctccatth ttttgaaatg gatcttcttg acatcgactc 240
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<210> 1018
 <211> 133
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700554612H1

 <400> 1018

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 aaccctcttc ggc 133

<210> 1019
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 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700554614H1

 <400> 1019

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 tggccctanc ccantacta gtgggtccact ncctctatt tncctactga cacttaacat 120
 tg 122

<210> 1020
 <211> 276

<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554615H1

<400> 1020

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ccttgcaagg ctgagaatca gagttgtcca tactttttatt ggtatgggtga tgggtccaac 180
acaactgggg atttgcatg gaaacttcac tgtaaatctc accactccta atgggacttc 240
cgagttgaag cagtggagaa gtgagtttgg agtggg 276

<210> 1021
<211> 116
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554616H1

<400> 1021

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ttccgcgct ccaccgcagc tncacacctc cggcgccgct cgtttctgtt cccttc 116

<210> 1022
<211> 286
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554617H1

<400> 1022

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ccctgtcctt cgacccatcc gcaccaatca ctcttctct tccctttcc gctctctccc 180
ctctcccgcc gccagaaaac ccctaaccgt cttcgccatg gccccaaaa agaagggtgaa 240
caagtacaat gataagtga agaaggagtg gtttggagcg gggata 286

<210> 1023
<211> 282

<212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554618H1
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 gcagatttcc ttcgagcccc tggagttcag acgcctgtaa ttgttcgttt ctcaactgtc 180
 atcatgagcg tggtagccct gaaaccttga gggaccctcg aggttttgcc gtgaagtttt 240
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<210> 1024
 <211> 280
 <212> nucleic acid
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 <223> Clone ID: 700554619H1
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 catctcccat tctctcatat tccctttact aattaaagat catgaacagc gagagacagt 180
 cgacgacgac gacgttgctg cacggcaagt acgagctagg tcgtgtgctg gggcacggaa 240
 gcttcgccaa ggtctaccac gcgcggaacc tgaagacggg 280

<210> 1025
 <211> 115
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554620H1
 <400> 1025
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 agtnccngtt ggnnangtgc cacanggaac cctgggtggga gcagttcaca attgg 115

<210> 1026
 <211> 278

<212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700554623H1

<400> 1026

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 tttaaaacat gatataattg tggtggaatt agcagcagag agtttttctg atatgctaca 120
 ttcttaatat ggtaggcaag taatttacga gtgatgcttt gggaatggtt gatgatccac 180
 gtgttgctgt catcaagctg cagatcgtac ttcacaacat gagaannntt atgctctgcc 240
 attgcaaaaa gctcaagctg ttgcagagga gacnmtaa 278

<210> 1027
 <211> 279
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700554624H1

<400> 1027

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 agaaaaactg ttaaaaatat tttccataaa agaaaaaaaa aacacttgaa gtggttattt 180
 tgtgcataaa tatgatagtt taacaatnca cttgactcat tgttgtttat ttggtaaata 240
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<210> 1028
 <211> 278
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700554625H1

<400> 1028

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 acaacgcatt catttcctat gcattgatte gatttctgat actatcggag tgaaaaaagt 120
 agatctaaag aaaaacgcgg gttggattat attagtaaca agtaaattct ttgtacgtaa 180
 aaagttccaa gattttgttg gacagaataa caattgcnaa gtttgagatc acccagaaag 240

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278

<210> 1029

<211> 277

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554626H1

<400> 1029

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agatacttct tatgcaacta tagtgaggct aagagttggt gcataattaa tcaaaatggt 120

ggccatattc cacaaagctt ttgctcatcc acctgaagag ctgaacagtc ctgcatctta 180

caaagggtcc aagaagccta aggttcctga ggaaactctc aaagattcct tcccaccat 240

cctcacaaca cttgctccag agctttggtg aagctgc 277

<210> 1030

<211> 87

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554627H1

<400> 1030

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acatgtaacc tttccttttc taaaaaa 87

<210> 1031

<211> 277

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554628H1

<400> 1031

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cttcactgc caatgcactc aaactctctt ctgtctccag acctcatctc ttgcctcctt 120

tttctttctc cagatgctta tcttcctgtt tggatggact taagtaagct gattcacatg 180

aatgggtcaa gcacgaaggc tcagtcgccca ccattggtat cactgacctat gccagagacc 240

atcttggaga ggttgtgtat gtggagctgc cagaacc

277

<210> 1032

<211> 278

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554631H1

<400> 1032

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tgcaaccac caaggtgggc atggccactc gcaacctcaa atctacacaa tgcatttcta 120

aggcttttgg cttggaaccc gctgcagcta aactcatttg ctcccttaag cccgatctca 180

aagattttgc tcaaaaatgt gtcgacgcca ccaaaattgc aggattcgcc cttgccacct 240

cagctctcgt tgtttcggga gcgagtgcag aggtgtcc 278

<210> 1033

<211> 285

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554632H1

<400> 1033

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cttcactgc caatgcactc aaactctctt ctgtctccag acctcatctc ttgcctcctt 120

tttctttctc cagatgctta tcttccgtct tggatggact taagtaagct gattcacatg 180

aatgggtcaa gcacgaaggc tncagtcgcc accattggta tcaactggacc atgcccaggg 240

accatcttgg agaggttgtg tatgtggagc tgccagaacc agtgg 285

<210> 1034

<211> 278

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554633H1

<400> 1034

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aggggcgcta gtgcaaaggg tttctttgag gtcacccatg acattttctca cctgacatgt 120
gcagatttcc ttcgagcccc tggagttcag acgcctgtaa ttgntcgttt ctcaactgtc 180
attcatgagc gtggtagccc tgaaaccttg agggaccctc gaggttttgc cgtgaagtgt 240
tacaccagag agggtaattt gaccttggtg gaaacaac 278

<210> 1035

<211> 278

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554634H1

<400> 1035

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ccggcggttt atatgccatt ctttcatcct caacctctgc tagctctgag atggaagtgc 180
cgtttggcag cgcacggcgt gagagcaaag aacgtgacga tgggtggctcc gggctctatc 240
ctcgcgaggg tgccaccacg gtcagtogtt ggaagaaa 278

<210> 1036

<211> 275

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554635H1

<400> 1036

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gcatgcagtg aagaaagttg gcaggaagga gttattacag atcagaacaa gaaagataaa 180
acattaactg ttcacttccc tgtcagtgga aaaacaaaac ttgtcagagc tggcatctac 240
gtccatcccg tttttggaag gatgggaaat ggatt 275

<210> 1037

<211> 275

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554638H1

<400> 1037

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gcaagttggg agccaaggca ttcgaggtac tgtcataggt ttccatggca gcagtatgta 120
aaagtcggag ctgttcttcg tcaatttggg tatactgtgg tagctttaca tggntgtttg 180
agaacagaaa ttcagacacc tagatcaggt agagccatgt tcaaggaccc ctgcattcgg 240
ctggcagcag aggtatccaa agtactgata gaact 275

<210> 1038

<211> 111

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554640H1

<400> 1038

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atctcaaccc catcaaagac gcaactacag ttttttccac caaaagcagg t 111

<210> 1039

<211> 135

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554641H1

<400> 1039

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acagagtgaag gagggcccca tagatgatct catggaactt gtgcaacaaa ttgttgcttt 120
tcacatgaag cataa 135

<210> 1040

<211> 278

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554642H1

<400> 1040

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 gatggcttga tgggtggcat gacaattcgc ccaatgacta acagtaagct tgcacatcac 180
 aatcttgctt ccaaccgcgc tcttcgcttc tgcaatccag ggactggctt caaaaccact 240
 gatcaagctc attatcttct ctgcccattt gattgaac 278

<210> 1041
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554643H1
 <400> 1041

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 acaacatcat cncctggaaat gctggctatg tccttgaaga tgtccctcat ctatctaact 120
 acatccctca cctcactaca tatcgtaatc cattgcaaga caatccttcc tattcagttg 180
 ttgaggagca ttctgttgat gtggatgata ctattgcgca aaaggcaa 228

<210> 1042
 <211> 271
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554644H1
 <400> 1042

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 tgacgtttta gcagagtgcac ccatctaagg agcagcaagg atgtatgtta aaggatacaa 120
 gtatttcaaa gtatacctct tgtcatgatg acttggttaag taaagggcaa gagtctgcag 180
 ctgttaccaa catacagcct caggttctca ctcatcttca gatttgaaat tggagtctct 240
 aagttagaaa agcagagaca aatacaagtt c 271

<210> 1043
 <211> 180
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700554645H1

<400> 1043

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gcangggagc cggtnccctcc nngttcgcaa tctccctcca ngaancgaac acaattgnng 180

<210> 1044

<211> 190

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554646H1

<400> 1044

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tcaagcgtga actgcaagag actgtacaat atccagttga gcncccagaa aagtttgaga 120
agtttggtat gtctccatct aaaggagtac ttttctatgg tcctccagga tgtgggaaaa 180
ctttgttagc 190

<210> 1045

<211> 276

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554647H1

<400> 1045

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aatgttgang gnaaacagan ataagtttga cctcgttatc agcgatgtga atatgcctga 120
cattgatgga ttttaagctcc ttgagttggt gggacttgaa atggacctac ctgtcatcat 180
gtggtcagca cacggtgata caaagctggt gatgaagggt gttncacang gtgcatgtag 240
actatttgct ggaaactgtt cgaattgnag agtggg 276

<210> 1046

<211> 278

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554649H1

<400> 1046

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tctatttcct ttctttctta tcgctcccca tttacttggt ttttcatttt tgcaggggtt 180
cttttgctca tcaccacctt cttcatattc cctctccaac catggacgtg ggatcgtgga 240
gttcttctcc ctccaagatc aagtcccgat tctccttc 278

<210> 1047

<211> 277

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554650H1

<400> 1047

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ggctctctca taccocatcc ttggctggca aggccgtgaa gctgggcccc tcagccccag 120
aagtgggaag ggtgagcatg aggaagaccg tcaccaagca ggtctcctca ggaagcccat 180
ggtacggccc agaccgagtc aagtacttgg gccattctc tggcgagccc ccgtcctacc 240
taaccggtga gttcccaggc gataaggctg ggacatg 277

<210> 1048

<211> 275

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554651H1

<400> 1048

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agcttcttcc atggctctct catccccatc cttggctggc aaggccgtga agctgggccc 120
atcagcccca gaagtgggaa gggtagcat gaggaagacc gtcaccaagc aggtctcctc 180
aggaagccca tggtagggc cagaccgagt tcaagtattg ggccattct ctggcgagcc 240
cccgtctta cctaaccggt gagttcccag gcat 275

<210> 1049
 <211> 275
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700554652H1

<400> 1049

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 tcatgaaagg aggaaagtcc aagaccgaat ctaagagagc cgatcccaaa cttgctgtga 120
 ataagaaggg agccgccacc aaggctagga aaccgcgcgg caaggggaag gcagcgaaaag 180
 accctaacaa gccaaagagg cctccaagtg ctttcttctg tttcatggag gagttcagga 240
 aggtattcaa caaagaacat cctgaaaaca aagca 275

<210> 1050
 <211> 264
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700554653H1

<400> 1050

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 aaggaggaac ttgatgttcg ccgcggcggc ggggcctgct gtttgctctg ttgctgggat 120
 ggcagtggca gatgagccaa aaccaggaac cccatcagcc aagaaaaagt atgctccgat 180
 ttgtgtcacc atgccaaactg ctaggatttg tcgcaattga gggactcggg nnttatntta 240
 cttctgatga tcggaaatgt gcat 264

<210> 1051
 <211> 273
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700554654H1

<400> 1051

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atttacccaa gtgtgttgta tgttgatatt gatattgggtt ccctcaagac tattattgtc 180
 tgtctggatt atgttttttag tcataatttg ttttgtcact attatggcaa atgaaatata 240
 agtgataaat gttgttttgc ctgtagattt nnc 273

<210> 1052
 <211> 183
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554655H1
 <400> 1052

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 attattgaaa ttgaataagt aaacaattta attggattgg tcgaatggta tcaaaaaaat 120
 ggagtactaa ctcccatttc tatttattat tgaattaacc gatcaacttg ctttgttattc 180
 gaa 183

<210> 1053
 <211> 272
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554656H1
 <400> 1053

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 actgtgatgc ggctgcttgg gcagaacca actgaggctg agctgcagga catgataaat 180
 gaggttgatg ctgatgggaa tggtagcatg atttcccaga attcctcaat ctcattggcgc 240
 gcaagatgaa agacatgatt cagaggaaga gc 272

<210> 1054
 <211> 278
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554657H1
 <400> 1054

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 tacgaggaaa ctgccatgcc attcgattc ccaaaactgg acttgtttgc agcacaagct 120
 caagtgaac ggacagattc ctttgctttt tctccaacaa agaaaggag gaacaagcta 180
 gaaaagcatt agaaggtgca ctaagtggga agaaaaatga atttgacaag tggaacaagg 240
 aaattaaaag aaaagaagag ctgggaggtg gaggtgac 278

<210> 1055
 <211> 276
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554658H1
 <400> 1055

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 gaattccaat gattcttaat ttcttacaat ccaatctgca aactgagtga gatataaac 120
 ttgtttttga tttcttctc atcattttgc atatacaaag attaaaatgg aagggttttt 180
 tggaaattgc ttcaatatga ttttgctgat gttgtgcttc accaacttga gcatagcttt 240
 tgctcaaagt catatgaatg gatttgaga gcagcc 276

<210> 1056
 <211> 273
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554659H1
 <400> 1056

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 acaactaatc ctgactgggc taactttcag acgtattctc ctataacctcc acatgggttc 180
 ttggcatcaa gcccacaagc ccacccatat atgtggggcg tccagcatat tatgcctccc 240
 tatggcatcc accttcatcc ctatgttgca ngc 273

<210> 1057
 <211> 271

<212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554660H1
 <400> 1057
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 cagccaccct tgcgtggaag gagcaatgca tcatgattgc cccatttgct ttgagtattt 180
 gtttgaatct gtgaatgatg tcaactgttct gctctgtgga catacaatac ataagagctg 240
 cctaaaggaa atgagggaac attccatagc a 271

<210> 1058
 <211> 276
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554661H1
 <400> 1058
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 cgaagctttt nctgcgatcc aatggagttc gacccgatcc caatcggttc gtgctccaaa 120
 gaacaccaga tgatctataa ggagtgggtc aattacgctg attcagatag cgatggccgc 180
 attacgggga gtgatgccac caagtttttn cgccatgtnc catttgctcc gcgaagatct 240
 taagcagtgt gggctattgc agtttcaaag cgacaa 276

<210> 1059
 <211> 169
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554662H1
 <400> 1059
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 aaccaaggct ttaacttgta tcgtgccatt gataattaat taaatattga ggagtacatg 120
 aagtatatcg agaagtttga actattaagt atgtccaaag cattttgag 169


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<210>      1060
<211>      149
<212>      nucleic acid
<213>      Glycine max

<223>      Clone ID: 700554663H1

<400>      1060

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cttccatggc tctctcatcc ccaccccttg ctggcaaggc cgtgaagctg ggcccatcag   120
ccccagaagt gggaagggtg agcatgagg                                     149


<210>      1061
<211>      278
<212>      nucleic acid
<213>      Glycine max

<223>      Clone ID: 700554664H1

<400>      1061

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tttggtgggt tcttccaaat tgcctagggt ttctgacatg tacacactca ctatagcaag   120
cgcagatcca aaatcaattt ctgcaaata tcaagtacat ttcacaaaaa gtgtcactca   180
gtggttcact aaggacggag tcttagttga gggcctgttc tggaaggatg ttgaagcttg   240
atagttcaat atacttaaag aaccaaagaa gagcagta                               278


<210>      1062
<211>      275
<212>      nucleic acid
<213>      Glycine max

<223>      Clone ID: 700554665H1

<400>      1062

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agaccgacaa caaactcaact cttaccaagt ccgaggaagc tttcgctgct gccaaaggagc   180
tgatgcctgg aggtgtcaac tccccagttc gtgccttcaa atccgtgggt ggtcaaccaa   240
ttgtgattga ttcagtcaaa gggctctcgt tgtgg                                     275

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<210> 1063
 <211> 278
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554666H1
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 ccaagaaaga gatgatttga aggaggctct agagaatgaa tctagcaagg tgaatcattt 180
 gaagcatgaa ctccaagtca cccaagagaa tcttggcaaa atcaagaaat gagtttgctg 240
 aattggaaaa ctttctaact gagtcaatta aactgcgc 278

<210> 1064
 <211> 268
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554668H1
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 cgctaccaag ttatcggttg ttatgagtct ggagaggcat gacacggata ctgctgggtc 180
 tgataccaaa aatacactaa nttatgcagt tgatgtgtca aagctacatg ttgaagaaaa 240
 gaagaactca tattcaacaa aagatggc 268

<210> 1065
 <211> 117
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554669H1
 <400> 1065
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 ttcagcaaca gcttcccca aactncatac tantcgcca tgcacatca tctctnt 117

<210> 1066
 <211> 273
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700554670H1

 <400> 1066

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 gcatcctttt tctttctcca gatgcttggtc ttccgtcttg gatggactta agtatgcaga 180
 ttcacacgaa tgggtcaagc acgaaggctc agtcgccacc attggtatca ctgacctatgc 240
 ccaggacctat cttggagagg ttgtgtatgt gga 273

<210> 1067
 <211> 264
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700554671H1

 <400> 1067

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 aaaccttctt ctctctccat cgttcggttt cgccctctca ctccctctcc tcgctttcgg 180
 aggcacctcg ttctgtatggc tcccgatgag gagaagatga ctctctgctc ccctctcgat 240
 tccccatcga gtgggaaagg ccta 264

<210> 1068
 <211> 274
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700554672H1

 <400> 1068

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 aaaacactga cccattttgt cttttaccct ctttacttt tctctccac ttcagcagca 120

ccaacacccat tgaggagaaa ccttggtggtg agcctgttga gtacaattat tcgggcttgg 180
agccaacaag gcccctatgag aagccacgtg tgggtggtgct gggttctggt tgggccgggt 240
gcaggctcat gaagggttg gaccctcgtg tgta 274

<210> 1069
<211> 273
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554673H1

<400> 1069

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caactagaat ttctgagatg cctcgcctt tcttctaaat ctcagtttca cctcgcgcgc 180
ttcgtttctc aaacccaaag catcattcgt gctatatccg cagttgccgc agaatcggag 240
ttaggtacac agcaggatca agcaatgaag cag 273

<210> 1070
<211> 130
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554674H1

<400> 1070

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taaatcagtt 130

<210> 1071
<211> 240
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554675H1

<400> 1071

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 cagactctgg agtgttccta ttactactct atggagtcag atgactcaac tangagcact 180
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554676H1
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 gatcgcagaa gagccaaata ccaactgac catacagtgc gtactcacia ggggtgcagat 180
 gacagatcat atggtttgtt cttccaagaa gaagatgaga agaaaacaat tgggtgtggca 240
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<210> 1073
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554677H1
 <400> 1073

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 agcttcttct caacaacat attcatatcc atgcaagatc aataataatg ttcatttggt 180
 gaattgtaat cctaaacctt ttgggcactc cttgtactaa tatatcgttt catagttcct 240
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<210> 1074
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554678H1

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 aagaagattc agcaagcaag acccctcatt tccgtgggta acaaggctgc ctctctatct 180
 tccccctggg acagcaccca gcgtcggcgt tcggtttcgg ctggacaatt tggggccgca 240
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 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700554680H1

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 tgggtgtaaag aaacacttgg caccattttt accttcacac gtgtgataga aactggtgga 180
 attcctgccc ctgacaaacc tcaaccactt ggtaccatcg ctgctgcacc aggggcttca 240
 gcactcatat gccaatctct taacatttac atagc 275

<210> 1076
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 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700554682H1

<400> 1076
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 aatggcggag cacttggcat cgatattcgg gacggagaag gacaggggtga actgcccgtt 120
 ctacttcaag atcggcgcgt gcaggcacgg cgaccggtgc tcgcgtctcc acacgaagcc 180
 gagcataagc ccca 194

<210> 1077
 <211> 224

<212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700554683H1

<400> 1077

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 cttccttatg agtacataga caacaatcca attcccacca tagtcttcaa gggtcgcca 180
 agaaccttcc atgccttcac aacatgcata atcttcgcct tctc 224

<210> 1078
 <211> 87
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700554684H1

<400> 1078

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 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700554685H1

<400> 1079

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 acaaattact ggtgacncct gt 142

<210> 1080
 <211> 271
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700554687H1

<400> 1080

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ttcaattttt ttactagcta actaaatgac cagaagatga gtttnggaca tattttgtat 180
cattaaattc caacattata ttacttttcc tacttatcta atagtaattg ttttncaaca 240
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<210> 1081
<211> 267
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554688H1

<400> 1081

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agctggtttt tcccaccatg gaagggccat agaaatgtcc aaagatcata ggccaaactg 180
gcatcaatga aaggacacga gttgagtcct taggtggctc atgatgatgg ttacctaaag 240
gccagttagg tgtcatcgtg ctctgga 267

<210> 1082
<211> 88
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554689H1

<400> 1082

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ttggtttttt tatcacatga tggttttt 88

<210> 1083
<211> 79
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554690H1

<400> 1083

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ctgtgaccca tgnagcant 79

<210> 1084
<211> 267
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554692H1

<400> 1084

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ttttggtttg gaacctgttg gagctaaaaa ggtcacatgc tcccttcagg ctgatcttaa 180
ggacttggct cacaagtgtg ttgatgctac caaaattgca ggattcgccc tgccacctct 240
gccctcgttg tctctggggc aatgctg 267

<210> 1085
<211> 92
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554693H1

<400> 1085

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antgatttgc aatcgcatag aaattccaat cc 92

<210> 1086
<211> 183
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554694H1

<400> 1086

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cgccaaactc ctcccttca agttccttg cttegacctc tccctcttcc gcatcctcca 180

ctc 183

<210> 1087
<211> 265
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554696H1

<400> 1087

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gtctcagtca aggtgttaaa aactttttgc tcataaagag ggggatcttc tgccacaaat 180
cagacagtgg ctgcctgaaa cgtgcacaga tcatgatatc tgnaaacatt aaganaccat 240
ctgcnatggc tcaaatcngg gatac 265

<210> 1088
<211> 302
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554701H1

<400> 1088

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aagttgttga agctttgggt aagatgggtta gggagcctat tgggagcact tccaccaagg 180
cttgtttggc aacaattttt aacttgggtg cgttggctgc gaatagagag ggaattgctc 240
aaagatttgt ggagttgggt ttggtttcac ttttgctaga ggctatgttg atggagagaa 300
ag 302

<210> 1089
<211> 294
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554702H1

<400> 1089

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ttggaagggtt gttgcaatgg ggaagggtgt gttgttgttt ctttgcattg tattggtgggt 180
ggtgccttgg cttgtactga ttcaattcag aagcttgagg ttcagaagca cttgaagaac 240
ttgaataggc ctctgttag gtccatcaag agtcctgat gagatgttat gatg 294

<210> 1090
<211> 298
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700554703H1
<400> 1090

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aagaggtgct tccacagggt atgacaatgc agttgctttg cctgctggtg gaagaggaga 180
tgaggaagaa cttgccaagg aaaacaataa aagtgcctca tcatccaagg gcaaaatcac 240
cttgagtgtc accaagacca agcctgagac ggggtgaggtt atcgggtgtg tcgagagt 298

<210> 1091
<211> 296
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700554704H1
<400> 1091

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cgcggccccc ttgtcgtcaa gaccgtcgcc gccacgctgc tgggtggtgct cgcttcctcc 180
ctctacagca tcgcaaaaat ccggcatcgg aacctcgatg ctcccgtcgc taaccccacc 240
gaccaagtcc tcgtgtacaa ncacatgctc gaagcttctc ttatggggtn tgtgct 296

<210> 1092
<211> 292

<212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700554706H1

 <400> 1092

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 acttgttggg tcatgttttt gagccaaaat cttcctggaa aatgtcacca tctatggttt 180
 ggtaaaattt tccattaatg aaattgagat tgaaaaaaga ataaagagat atttatatgt 240
 atgggttaaag tatataagtt catctagagt aatgaggtca gatgtacaaa gg 292

<210> 1093
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 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700554707H1

 <400> 1093

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 cttctataga atctatgcac atgtagctaa tagaatatac tatnaatata taatatttgc 180
 tttcatgttt ctgtgattgc atgcttcctt tgggttcccg atgctctaga gcaaccattt 240
 cctaattggcc aatttgatct agtgtagtcc atggagattg gagagcatat gcc 293

<210> 1094
 <211> 292
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700554708H1

 <400> 1094

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 cagcaatggt ggtgttgttt tgccgcacaa ggagatcaag tcaaatttc tgaagccgga 180
 gattgtcatg tgagtgggt caatgatgtt caaattggta ccatgtgggtg aggaggtaga 240

aaaattattg agtctggaat atgtttgtcc gtttcattgg ttttcctttt ac 292

<210> 1095
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554709H1
 <400> 1095

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 tacgttccat cttcaagaaa ccacagcgtc taagactccc accgggtcct ccaatttcaa 180
 tacccttgct gggacacgcg ccatatctcc gttcactgct ccaccaagca ttgtacaagc 240
 tatcactgcg ctatggacct ttgatccacg tcatgatcgg ttcgaagcac gtggt 295

<210> 1096
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554710H1
 <400> 1096

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 ttacggcaaa gcaatttgaa tccagaaagg cctgactcag gatttttaag gacattggat 120
 tctatccatt aagcgcaaca ctgctgttat taagaaactg aagcagatta atgaagaaca 180
 gtgtgaagct ctgatggacg agttgcgaag tgtcaactta agcaaatttg tcagtgaagc 240
 cgtggctgct atatgtgatg ccaagcttag aagttctgat atacaagctg cagt 294

<210> 1097
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554711H1
 <400> 1097

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 caaaaaatgg tgcagagtct ctgtttgatg gcttctcatg gttaccctcc tggccttgctc 180
 ttgcacccac aagtactggg cttgccctgc gctaccatga agggctacca aacattcttt 240
 ccttctccag tagcaaaagc agacctgatc agatatcagt ctcgttgtct tg 292

<210> 1098
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554712H1
 <400> 1098

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 agccttatct ccaaccatcc aaaagcacca tcatttgaag ccatccaacg tgtgcttcca 180
 aggtcttaga cccctcgcaa gggtcaccaa agcctcatca accaaagtga gcaccaccac 240
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<210> 1099
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554713H1
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 ccgagtcaag tacttgggcc cattctatgg cgagcccccg tcctacctaa ccggtgagtt 240
 ccaggcgat tacggtggga catgctgggt ttccgcagac cca 283

<210> 1100
 <211> 295
 <212> nucleic acid
 <213> Glycine max

a

301

<210> 1103
<211> 81
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<213> Glycine max

<223> Clone ID: 700554718H1

<400> 1103

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gattngaata gtgangcatg a 81

<210> 1104
<211> 292
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<213> Glycine max

<223> Clone ID: 700554719H1

<400> 1104

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ttccttcctt tttctagaaa atctacagag gatttccatt ctgtcattgc cttccagacc 180

tatgcagttg gaagcagtg aggatacaag aagggtgtga cagaagcaaa actgaagggt 240

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<210> 1105
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<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554720H1

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gataataagc cagtagaaac cgatactggt tacgacaaca catcatattc caagccttct 180

gatgactatg actctggttt caacaagcca tcgtatgagt cttctggcgg tggtatgaa 240

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<211> 291

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554721H1

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aacgaccctt tcatcaccac cgattacatg acatacatgt ttaaatacga cagtgttcat 180

ggacactgga agcatcacga tgtcaccggtt aaggacgaga agaccctctc ttcggtgaca 240

agccagtcac tatttttggga cacagaaacc ctgaagagat cccatggggg t 291

<210> 1107

<211> 281

<212> nucleic acid

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<223> Clone ID: 700554722H1

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agctgtgtca tatggattta catcaatggc catggttttt atcaacaagg ctgttctatg 240

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<211> 283

<212> nucleic acid

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 gctgtgtcat atggatttac atcaatggcc atgggttttta tcaacaaggc tgttcttatg 240
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554725H1
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 gttccattaa cggcaaggcg catgacagga atagtatcca ggggagggtc tattcatgca 180
 aagtgggtgct tagcttacca caaagagaat tttgcttatg agcactggga tgagatactt 240
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554727H1
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 agcacagcaa caacaagtga atgggtgtga ggtacaaagt agccgtaggg cagtgttttc 240
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<210> 1111
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 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700554728H1

<400> 1111

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 aaacctcatt tggtagcgta aattcaaacc ttctcaaaaa gccatcggtg ctgatttcat 240
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<210> 1112

<211> 293

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554729H1

<400> 1112

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 cagtaaaaat ggtgaccgtg gaggaatcc gcaacgctca gcgttcccat ggacccgcca 180
 ccatcttggc ctteggcacc gccacgccgt ccaactgcgt ctcccaagcc gattaccctg 240
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<210> 1113

<211> 294

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554730H1

<400> 1113

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 ccatcttggc ctteggcacc gccacgccgt ccaactgcgt ctcccaagcc gattaccctg 240
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554731H1
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<210> 1115
 <211> 296
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554732H1
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 aatctgtgag caagagtgtc aaaactgcac agatgacaat cttttatggg ggacaagttg 240
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 <213> Glycine max
 <223> Clone ID: 700554733H1
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 tctagcatta agcgcaacac tgctgttatt aagaaactga agcagattaa tgaagaacag 180
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 <223> Clone ID: 700554737H1
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 taatgacccc ttgaactggg gtgcggcggc ggaggctatg gctgggagcc acctcgacga 180
 ggtcaagcgc atgctagagg agtaccggag gcccgctcgtc aagctcgggtg gagagacctt 240
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<210> 1121
 <211> 291
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554738H1
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 aaccttcacg gggcacaagc tggttggctc atgctcaaca gggcctagca gctttggcta 240
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<210> 1122
 <211> 290
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554739H1
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cagcttctct ctgtaaacta agctccagtt caaatatagt tgacatgaag atatctcgat 180
 gtggttgctg gaaagttgga catggccaaa gatgtttccg attatatgcc ctatttggag 240
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<210> 1123
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554740H1
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 tgaaaagtat ccccttggag gcatcatctc tgccattgag aatgcttttc acgcatctcc 180
 tcaaatagtt tgctcgaaaag attctgttga ggaacttcgc ctatgctttt ataaggactt 240
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<210> 1124
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554741H1
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554742H1
 <400> 1125

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121

<210> 1126
<211> 287
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554744H1

<400> 1126

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ctggggaggc aagggacaag gaaaatcttt ccaatgtgag cttgtctttg ccaagatggg 240
aatcaacccc atcatgatga gtgctggaga gttggaaagt ggaaatg 287

<210> 1127
<211> 287
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554745H1

<400> 1127

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aaganagagt atgacttgaa gacagcaata tctttgggta aagaaacagc taanaccaag 240
ttttagaaaa cagtagaagc ccntnccgcc tcaacttgac ctaaata 287

<210> 1128
<211> 290
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554746H1

<400> 1128

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acagacanat cagatgtttt ctctatgga atcatgctcc tgagttaata accggacgac 180
ggccagttga taaaaatcaa acttacatgg aggatagttt ggtagactgg gctaggcctt 240
tgctcacacg agctttggaa gaggatgatt ttgattctat tattgaccca 290

<210> 1129
<211> 289
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554747H1

<400> 1129

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cttgaatgtg gggagtggaa gcaggggtggc ctcaatcaca cgtgcagggg tcacagttag 180
agcacagcaa caacaagtga atgggtggtga ggtacaaagt agccgtaggc agtgctttca 240
ttgttgctgc tggtttgacc atgggtcttt gttcaagctg tgcttgctg 289

<210> 1130
<211> 293
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554748H1

<400> 1130

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gatttcaaac tcaacttcag ttcaagagaa agcaatgcc tccaaaaggg tctttctacg 180
tctccgcatc gagcaccaag aaaatcctaa taatgggagg caccagggtt attggtgtgt 240
ttttgtctag gtcctgtca aagaggggtca ccaggtgact ttattcacca aga 293

<210> 1131
<211> 293
<212> nucleic acid
<213> Glycine max

Variable	Mean	SD	Min	Max
Age	34.5	10.2	21	55
Gender	0.5	0.5	0	1
Marital status	0.6	0.5	0	1
Education	12.5	1.5	9	16
Income	1500	500	500	3000
Health status	0.8	0.2	0	1
Employment status	0.7	0.5	0	1
Family size	3.2	1.1	1	6
Home ownership	0.9	0.1	0	1
Car ownership	0.6	0.5	0	1
Life satisfaction	4.5	1.2	1	7
Subjective health	5.2	1.5	1	7
Life expectancy	78.5	5.5	65	90
Quality of life	6.8	1.8	1	10
Healthcare access	0.9	0.1	0	1
Health insurance	0.8	0.2	0	1
Healthcare costs	1200	400	500	2500
Healthcare quality	7.5	1.5	5	10
Healthcare satisfaction	6.2	1.8	3	10
Healthcare access	0.9	0.1	0	1
Health insurance	0.8	0.2	0	1
Healthcare costs	1200	400	500	2500
Healthcare quality	7.5	1.5	5	10
Healthcare satisfaction	6.2	1.8	3	10

gagagagaga	tggaggagaa	gacggagaag	gtgaagtctg	aggcagttca	gataattgaa	60
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<223> Clone ID: 700554750H1

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catatgatcc	atggacgatt	gttagtgtgt	ctgatgactg	tgaaagtact	ggaggagggg	180
gaacgttgca	gatatggcgc	atgagtgatt	tgatctacag	accagaagat	gaggtttttg	240
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<223> Clone ID: 700554752H1

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ggttcgaggc	cgaaccgggc	ggctggcacc	ggttactgga	aggcaaccgg	ggcggataag	180
cccattggtc	agcccaaacc	ggttgggatt	aaaaaagctt	tgggtgttta	cgcagggaaa	240
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<210> 1134
<211> 288
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554753H1

<400> 1134

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nnnnnnnnnn nnnnnnnnnn nnngaacaac cctcatccat actnaggaaa caaacgacag 180
agactgcaac catgtacggt gatcacgcgt ttctgatttc ggacgaggat gtcattgatgg 240
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<210> 1135
<211> 283
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554754H1

<400> 1135

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tctctgtagg tgcattcttc taaatgtata agggaaaaag aatagtcttt gctgaggatt 180
tgggggcatt tgtaaaagct tatttgagct tatgaagatg acttatgtta taatctnttt 240
agcttatgan ataagctctt attgataaga gatattatta tag 283

<210> 1136
<211> 289
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554755H1

<400> 1136

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aactatgtgt ctttgcacac taaacaagtg ctatcaagtg gcaggagaag gcatgtgggg 180
 ggttctggag ttaggtgcat ggctgtgggg gaagcagcaa ccaactgggac aaagaagaga 240
 agtggatatg agcttcaaac actcactagc tggttgctga agcaggagc 289

<210> 1137
 <211> 289
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554756H1
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 gtctctttaa gtttctttta attgatccag taatctatca ataaaaggat tgaatagcca 240
 taaattgctg agtttcttgt atgtattata ttattaaatc ttcccatta 289

<210> 1138
 <211> 286
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554757H1
 <400> 1138

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 cttcagggct catgattctg cattcaaaga cagatatcta cagttacaga atgtaagggc 180
 gagatttata ccaactgaga agaaagacat ccgagaattg ggtcccatgg aagaggttgt 240
 atacgatttg gtgaaacata gatacgctgc accaaaccaa agacca 286

<210> 1139
 <211> 98
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554758H1

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<210> 1140
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 <212> nucleic acid
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<223> Clone ID: 700554759H1

<400> 1140
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 atacttcaga cacctagttt catatcatca ttccacacaa cntacgnttn cgtatnt 117

<210> 1141
 <211> 283
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700554760H1

<400> 1141
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 ctagacagca accagctcgn cgaagcagat gaatttgagg acaaaatgaa ggaattggaa 180
 agcatctgca atcctatcat tgccaagatg taccaaggtg gtgctggtcc tgacatgggt 240
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<210> 1142
 <211> 279
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700554761H1

<400> 1142
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gagagcagga gactagcctc gaaatcttgt acatgtgcct tgctaggtaa taagggtgtga 60

accatgattc gggacctata tttcatgatg gaacaaaaga atggagttgt tgcaagaaaa 180
gaagtcatga ttttagcttg tttttggaaa ttccaggatg caagacagga aaacatacaa 240
cagttaagca agttattaca ccagtgaaga agaacacca 279

<210> 1143
<211> 96
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554762H1

<400> 1143

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<210> 1144
<211> 240
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554763H1

<400> 1144

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gcgtcacgat tgacaaatgt gaatcaacaa agctatggtc cgcgaaacctg agactcaatg 180
tacctatgca cgtatcaatc ttcataaagt gcttactctg ttttaagagtt ggaaggattt 240

<210> 1145
<211> 291
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554764H1

<400> 1145

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tctcgggaga taagtatgtc acatttgatg gattagcaag agcatgtgct aaggctggtg 120
ggttcccaga gccagagatc attcactaca accctaaaga ttttgatttt gggaaaaaga 180

aatcatttcc attccgtgac cagcatttct ttgcatcagt tgagaaagca aagagcgtgc 240
 ttggattgga acctgaattt ggactttag aggggtctag agactcgtac a 291

<210> 1146
 <211> 298
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700554765H1

<400> 1146

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 ttattttctt ttggttcttt gttgttgtct taatttatac ttccataaag cttttgtgga 180
 catttctgac tttcgccagt aattggtgta aattaggatc caaaagcctt ggtcaagact 240
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<210> 1147
 <211> 290
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700554766H1

<400> 1147

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 caaggccagc tccatctgct tctagtctg cctccttcaa gactgtggct cttttctcca 180
 aaaagaaggc tacaccaaca cctccaaaaa aannnnnnnn nnnnnnnnnn nncaatgatg 240
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<210> 1148
 <211> 127
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700554767H1

<400> 1148

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aagggtt 127

<210> 1149
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<213> Glycine max
<223> Clone ID: 700554768H1
<400> 1149

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<211> 287
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700554769H1
<400> 1150

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tcaaggccaa aaacngtggc gttttacctc gccacgaccc taaaccaag cctgaagctc 180
ctgctgaaaa accacccaaa ttttacctg ctgatgatat caagaagccc cttgtcaaca 240
agcaciaacc gaaaccagct aagcttcagg gctagcntac tcccggg 287

<210> 1151
<211> 287
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700554770H1

<400> 1151
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 caaggccaaa aacggtggcg tttacctcg ccacgaccct aaacccaagc ctgaagctcc 180
 tgctgaaaaa ccacccaaat tttaccctgc tgatgatatc aagaagcccc ttgtcaacaa 240
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<210> 1152
 <211> 286
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554771H1

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<210> 1153
 <211> 286
 <212> nucleic acid
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 <223> Clone ID: 700554772H1

<400> 1153
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<210> 1154
 <211> 275
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700554773H1

<400> 1154

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 cctcactttc cgggaaaaaa acagaactcc aatcacacct cacaagctcc ctttttcagc 180
 aaggcctacc accaccagag tgggtgttgg gaagtctcag gccacagcac ctgcttcttc 240
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<210> 1155
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 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700554774H1

<400> 1155

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 gcaatatatg cccttgga gccaagcaga agttccaaat catgtcaatg atcaaagagc 180
 atgaaggcaa aaatgggcca atcccttgga atttcacggc aggcagcatg ggtgtgactt 240
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<210> 1156
 <211> 279
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700554775H1

<400> 1156

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 atggagttaa gaacgtagag gtggacttga gcaatcaggt tgtgaggatt ctcggttcaa 180

cgccggtgaa gactatgact gaagcttgga gcagactggt agaaaagccc gggtattgga 240
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<210> 1157
<211> 275
<212> nucleic acid
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<223> Clone ID: 700554776H1

<400> 1157

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agatggacaa ctgcaagccg tgcgggtggcg ccatac 275

<210> 1158
<211> 284
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554779H1

<400> 1158

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atcggaatat ttggtatttc cggccaccac ccggcgaaact ctccggcgga aaagtccact 120
ttctctcaga cttgtngtct attgagccaa tacatcaagg aaaagggtac ttcggagacc 180
ttaccctcgg gatgattgca ctgccgaaac aaacgggttc ccctgagaca tcgtgtcatc 240
tgcaacaaca tggagttggt tcccacgata atcagcaacg gaac 284

<210> 1159
<211> 289
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554781H1

<400> 1159

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ctcttcttcc natcncaaca acannaaatc aatctgggaa acaanaacaa aatgccgtca 120
ttagaggagg aactcttccc atcaacccca ggaaagttca agatcgagcg gtcccaccac 180
atgaaccgcc aactctatcg ctgtttcgcc tccaccagca ccatgttcct gtggggccctc 240
ttcttaatcg ccctcacggt tcttatctca gttccaagg ctctgctga 289

<210> 1160
<211> 287
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700554782H1
<400> 1160

caaaatacta ctatagaatt ggaagtgggtg attctgctcg agacttttgg ttcgaaacac 60
ctcctaaagt tggggccagat actccctaca aatttgggat cnttgggtgat ttggggcaaa 120
cgtttaattc tctttcgacc cttgagcatt atttggagag tggaggagag gctgtgttat 180
atgttggaga tctttcttat tctgatgaac atgactacaa agatatgggt ttacgggtggg 240
atacatgggg ccgatttgct gaaaggagtg cagcatatca gccatgg 287

<210> 1161
<211> 284
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700554783H1
<400> 1161

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tgcaggatac gcgattgagc cagacactga ccaatgttgt aataccaacc ttcgacctta 120
agaaacttca ccagttata ttctcaaact ttcagctgaa gacagttcct agctttgatg 180
cgaantgtca gatatatgca ttgggacctc agcagcacca acttatcttc caccctatta 240
ctttgagaat gatggcactg aattcaattt ggttgatggg ggcg 284

<210> 1162
<211> 110

<212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700554785H1

<400> 1162

gtgaagtgtt cggattgctg cgacgtgagc ggttcgctgc ccgcgacgtt gtgagnagtc 60
 cactgaacct tatgcattta gaggaaggag ttcttctcaa agttagnaga 110

<210> 1163
 <211> 110
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700554786H1

<400> 1163

ccatgcctca aaaggggtga taataagtaa aaaanatcaa tganttcattg ataaaacccn 60
 tctgcgtttt nnnngattata gggtttttttg tcaatanagg gatcnngggg 110

<210> 1164
 <211> 276
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700554787H1

<400> 1164

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 gaatcaaaca ggggcgatct caccttcaag aacacatcgc catggcaagg aacttgcttc 120
 ttgtgctttt ttgcagtagc caccctcctc catggctcag cagcccaaac cagacacatg 180
 ctcggtgatg ccacgggctg gatcatccct gctggcggcg ctgccaccta caccgcctgg 240
 gcttccaaca aaaccttcac cgtaaacgac actctc 276

<210> 1165
 <211> 283
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700554788H1

<400> 1165

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 agctgaaaaa ttgcaattga tgggaatagc tgatcttact caagaatcac ttgccttgca 120
 tgagatggng gcatcaagtg gtggggatcc aggagcacgc atngagaaaa tgtcaatgtt 180
 attgaagaag ataaaggatt tcgtgcaa atganaatcta gtcaaggatg ataatttagg 240
 aggaaaaggc ttttctcaaa agtctatgga cttgggacca atg 283

<210> 1166
 <211> 277
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700554789H1

<400> 1166

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 aagctgggcc catcagcccc cgaagtcggg agggtcagca tgaggaagac cgtcaccaag 120
 caggcctcct ccggaagccc atggtacggc ccagaccgcg tcaagtactt gggcccattc 180
 tctggcgagc ccccgctcta cctcatggcg agttcccang tgatacggct gggacntgct 240
 gggtttcggc gaccagaaa ccttcgccag aaacgtg 277

<210> 1167
 <211> 93
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700554791H1

<400> 1167

gcanaagctt catttcagat actgantnct tggatgtatg atccaanatt cctagcaagg 60
 atgtggcaac tagcaatcta cactncccat nca 93

<210> 1168
 <211> 108
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700554792H1

<400> 1168

caacacaaga acggttttct gtgtctaagc gctcttagtg gttccgattc tttctccact 60
 ttcaacttgt ccgttttctca ctctccctca aatctcattc tctctctc 108

<210> 1169
 <211> 138
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554793H1
 <400> 1169

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 gaaanatgga ngggaaggag cnggatgtgt cnttgggagc gaacaagttc cccgagagac 120
 agccgattng gacggcgg 138

<210> 1170
 <211> 288
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554794H1
 <400> 1170

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 accggcaaga ccatcaccct tgaggtggaa agctctgana ccatcgacaa cgtcaaggcc 120
 aagatncagg acaaggaagg aatccccccg gaccagcaac gtctcatttt cgccggaaag 180
 caacttgagg acggccgtac ccttgctgac tacaacnttc agaaggagag tatcttcacc 240
 tcgtctctcg tctccgtggt ggnatgcaga tcttcgttaa gaccctca 288

<210> 1171
 <211> 199
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554795H1
 <400> 1171

gcacgtacac acaaacgaac caaggttctt cttctctgcg atcagatcgc acaanttttg 60
 gnaccctaatt ctacnacatt ncgttttggg ccttcacccg aatcgtaaaa atcantctct 120

gcgaatcgaa tcctctttct gacgtcgatc atttcgtcga ctgagtcatt taaccctaaa 180
cattttacat ggccatgac 199

<210> 1172
<211> 284
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554802H1

<400> 1172

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ggagnnccgt attagtttta gtgggcaggt gcaaaattac caaagcacag tgtctcaagt 120
ggtaaattta ctgggaaatg aggactcagc tgaaattact tgagcaagtg catataactca 180
attgggttgg gtagcaatga ttacctcaac aactatttca tgctcaatt ctattccagc 240
agcaggcagt actcaccaga tgagtatgct ggatgttctt attc 284

<210> 1173
<211> 234
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554804H1

<400> 1173

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cgggtggcggg gctactgtgc gccgcggcgg gcgcgtacgt ggggtggagga ggcggcgaac 120
ccgatacgaa tgggtggcggg ggtggaggcg gagtggttcg ggtgataggg cactgncggc 180
gcgcnctgaa gtttgctang ttcattgagca ngttcgggaa gagttaccga agcg 234

<210> 1174
<211> 198
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554805H1

<400> 1174

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ctctgntttt tgggtacnaa cagagtttct cctgttttng acgatggcca taaaggcgat 120
tgaactgttn aaaggggtgcg gatcanaaga aaaataatgg aagtgcttgc tgcgggtggct 180
tcgganttgg gggatgtg 198

<210> 1175
<211> 287
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554806H1

<400> 1175

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tgctattaca ganttcacaa gtgcttacac ttcaaatggc tttggnnngcn cttcaatnan 120
ncaccatata cactccatcg tttagtcctt ttngganacc agtctcagtt acttagagac 180
accgtggacg aaaggaaaagc gttctaagcg tagccgcacg gagcaacaac tgcaacaccc 240
ttcatncacc gaggaagagt acctcgctct ttgtntcatc atgctcg 287

<210> 1176
<211> 69
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554807H1

<400> 1176

caactatgag caaggattat ntaatcatatc tnnctctcct tctttccacg gtgcttgcaa 60
cttcnaagt 69

<210> 1177
<211> 284
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554808H1

<400> 1177

gcogagtga accccaatcc caatacactc ccaactcaca aagccatgtc tccaggtcct 60
gttgtcgacg cttccctga ggttgaagca gagcaacaac ttccctccgt cgatgacgca 120

accagttga agaaatccca accgcaggag gagatgctcc cgttgctgag gacgtgaggg 180
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nacaaggaag 240
 acgatgctct aggtggtgct gagggttcan agcagagcag aatg 284

<210> 1178
 <211> 291
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554809H1
 <400> 1178

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 cctncaccgg cactgccgtt nttctagctc tgcaacnact tctatgtcct tgataatanc 120
 ttgcagatct gaattancct ctgttgatgt atattgtccc atattgggtc gtgtatgagt 180
 tcttgatttg tagatcagtc ataccgtgac agagagattg gtggtgcgaa ctgggacaac 240
 cantaacaga gcagtantct tgcgatgggt ataaacgang cagagtacgt c 291

<210> 1179
 <211> 286
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554810H1
 <400> 1179

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 tggacgccgc agcaacaggt tcggagctga acaagtccgg aagcggaggt tcggagcgaa 120
 gtgaggacag cggaggaggg atatttgagt atctggctgg gtttatcact tgggagtaaa 180
 ttccattggc catgagtact gtcattctcg attcctcttc ataggggaaa gtatgttctc 240
 catgtacaag cgtgatcctc acgataaccc tggcctcaaa cctatt 286

<210> 1180
 <211> 286
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554811H1

<210> 1183
<211> 287
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554814H1

<400> 1183

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cgagattgga gcaaaaatgg atagaagtta tgggtgatac tcaagtggat gaactcataa 120
aggctgtgaa tcacagattc agatctgaag attggttaat gctggtggca ttcacagaac 180
aatggtgttt gccaacactg ttgaggctgt tgaagctgtg gcaaagatat tactccgatc 240
tgggattgaa tgttctcggt atcataagaa tgcacattgg aagagcg 287

<210> 1184
<211> 291
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554816H1

<400> 1184

cgtagatatc tctttttgcc gcgacaaatg ctaccatcat ccaactgtcct atctctcgcc 60
ggaacccgcg ccggcggttc ggtgagcttt tccggcgaac tgggtcacct cgaaaccaag 120
ttttcttcaa gaccagaaa gggtttcagc cgtngtgcac aaaggggatt cccttacaan 180
naaacaccat caatggtttg aattcgaaga acagaaactc actttcgagc ttgcgattcg 240
gtaaaaaagc cgaagacagc tttttctcgg atgtaatgga gacaccgatg a 291

<210> 1185
<211> 281
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554818H1

<400> 1185

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ttacaacatg gagagaagtt ctggaacgag tagccagtct ctctggttgg gatatcagaa 120
ataaggaaca acctacagtg attgatgaat tgttcagaag ataaaaaaaa tcgtgggttg 180

caaattttct attcttcgaa atgataatct agttgggatg gaatctcatt ttctacatta 240
tcaaagcagc tggggccggt taatgatgtt cgagttgttg g 281

<210> 1186
<211> 282
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554820H1

<400> 1186

cactgtcttg tgttgtgttg tgtcatgggc attaactgcc actacttcaa tcaacataag 60
tcaccatagc actttgattt ttctccgaa acaacacaag cagcacctta gaatccacag 120
gtttcgatgc agtggaaacta atccgaacaa gagtcggaat cacagaacaa tgcaattctc 180
aagcttgcat ggtatagtgc cgagcttctt ggcatgagc cgtccgtttt ccgttcacca 240
tctaataagg aagttcctcc tcagaggctt cttcagacca tt 282

<210> 1187
<211> 279
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554821H1

<400> 1187

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gaacccaatg agggagataa aagtgcagaa gctcgttctc aatatctctg ttggcgagag 120
tggagatcgt ctcaccagag ccgccaaggg ttggaacaac ttagtggcca aaccccagtg 180
ttttccaaag caaggtacac tgttcggtcc ttggggatta gaagaatgag aagattgcat 240
gctatgtcat gtcagaggtg acaaggcang caattttgg 279

<210> 1188
<211> 282
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554822H1

<400> 1188

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ccagggttgt tttttcaaca tgcaggtcat agggatnaag ttgttgactt ccattggaat 120
gcatatgatc catggacgat tgtagtggtg nctgatgact gtganagtac tggaggaggg 180
ggaacgttgc agatatggcg catgagtgat ttgatctaca gaccagaaga tgaggttttg 240
gccgagctgg agaaatcaaa tctcatgttg tggcgtgtgc tt 282

<210> 1189
<211> 282
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554823H1

<400> 1189

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aaaatgcgtg agatccttca catccagggg ggccaatgcg gcaaccagat cggcgccaag 120
ttctgggagg tggtttgctg ggagcacgga tgcacctac cggaaggtac ggtggggact 180
cggagttgca gctcgagagg atcaatgtct actacaacga ggccagttgc ggtcggttcg 240
tgccgcgcgc ggttctcatg gacctgaac cgggcaccat gg 282

<210> 1190
<211> 283
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554824H1

<400> 1190

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gcagttgtac tctttgaaag tcttggaact ttcgtcaaac tctcttactg gtgagattcc 120
caaggctatn gagaacatga gaaatctgat gatgttttgc tcaacaacaa caatctttct 180
ggtcacattc ctaatggttt ggcacatgtc gctacactct cagcattcaa tgtgtctttc 240
aacaacttat ctggatcctt gccttcaaat agtggcctga tta 283

<210> 1191
<211> 288

<212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554825H1
 <400> 1191

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 tagctanccc acatacaatg tacgaccaa ttaaggtgt ttcgtgaatt cacaagcgat 120
 gactcattcc taaaccaagt tatccctgaa aaatcaccga attccaagt actctgtccc 180
 tcgctagaga ctacgatggc aacaactcaa ccaacggaaa gttcattcct tactgggaca 240
 ctgaaaaggt cactcccga gtgataaaaa aattcaagaa 'aaaatacg 288

<210> 1192
 <211> 284
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554826H1
 <400> 1192

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 tttgggattg tctactgatga agatagagaa gctgatcgtg aggctttaga aaagatttca 120
 aagatgatag aggaaagggt gaagattagc ctttgccctgc accatctgct cagctgactg 180
 gtgatggttc tgtaaattta acttcagaac aacctgttaa agcaagggat ggagacttct 240
 gttgtggata ccgagaagaa tgaatctgct gaaaataaaa atga 284

<210> 1193
 <211> 277
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554829H1
 <400> 1193

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 aagctaaagt tcccgccgtc gaaaagccgg tggaggaggt gaaggcgccg aagcttgcca 120
 aggagaagaa acctaaggct ccaaggaaaa gaagccgaaa caggccaaaa ctgcttctca 180
 tctccatat ctccagatga ttaaggacgc tttgattgct ctgaacgaga aaggaggatc 240

gagtccatat gcgataggaa gtacatggag gagaagc

277

<210> 1194
<211> 288
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554830H1

<400> 1194

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aactaagaag acccatgaga gcatcaacaa caggctcgc cttgtcatga agagtggcaa 120
attcaccctc ggttacaaga ccgtttctcaa attcttagga actccaaagg aaaattgatt 180
atcattgcta acaactgccc ccctttgaga aagtcagaga ttgaatacta tgctatgttg 240
gcaaaggttg gagttcatca ttacaatggg aacaatgtgg atttgggc 288

<210> 1195
<211> 287
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554831H1

<400> 1195

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tgggctactt ccagtgttga agaggtggct tcaacaggac ctggcattcg ctttttccag 120
ctatatgtgt acaaggacag gaatgtggtt ntcagcttgt gagaagagct gaaagggctg 180
gattcaaagc cattgccctt actgttgata cccaatact aggacgcaga gaagctgata 240
tcaagaacag attcacattg ccgccatttt tgacattgaa gaacttt 287

<210> 1196
<211> 276
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554835H1

<400> 1196

ggagnattga gggtggagtt ggagtgagta acccagcaca gcaatggcat tgagactgag 60

[illegible]

gtgaaactgt	gatgtcctcc	taaaaaactc	tatccatgtc	tatgatgtct	ctcacacaacc	60
gtggctgcat	tcaagtccct	cacaatggcg	gaatcgtgcc	ttctatccct	cccttccctc	120
ttctacgcc	aaaacaatac	cctttcttct	caattcccac	caagcccctc	aacctccatc	180
ttccatgctc	caactcttcg	ctctttcccc	tcaccaccaa	aacaacgcgc	cactcttctc	240
tcctcacatt	cgtgqctcag	acatcggatt	qqqccaaaga	a		281

ccagcaaaag	cggttaagag	gtctggctca	aaacctcaaa	gacaaagcct	cggtgatcgc	60
cgcagcgcta	tccaccaagc	gtcacctctc	ttccgtccgt	gtccacgtgc	tccgcgccac	120
cacgcacgcc	ctcgcggcac	caccctcgag	gaaacaattt	ctgctgtcct	cgcggtcggg	180
cacggcgggt	cccaccgtca	tccacgcgcg	tgcctcgaca	ctactcatgg	accgcctcca	240
cacnacgcgc	atgacaccgt	ggcactcaaa	tgcctctaca			280

434

<223> Clone ID: 700554838H1

<400> 1199

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 natgtngtat gcnccaggca ttgatgaatc tgttctcgct gtgttggaag cctttggccg 120
 cgatgctgat cgaatcgatt ccatcgngt tatcggaaga gaaggcaaag acggcttgct 180
 ctggttccgc gacttcggaa aatatggctc cggtgatttc tccatggctg tcgttcaggc 240
 cancc 245

<210> 1200

<211> 282

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554839H1

<400> 1200

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 ttgcagagaa caaggaggat tacaacaagt tctatgaggc tttctccaag aacttgaagc 120
 taggtatcca tgaggattca cagaacaagg aaagattgct gaattgctca ggtaccactc 180
 caccaagagt ggtgatgaaa tgacaagcct caaggattat gtgaccagga tgaaggaagg 240
 tcagagtgc atctactaca tcacaggtga aagcaagaag gc 282

<210> 1201

<211> 281

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554840H1

<400> 1201

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 tggctgcctc cgtctccact gtcggagctg tcaacagagc tcttttgaac ctgaatgggtt 120
 ctggagctgg agcttcagct cccagttcgc cttctttggg accagcttga agaaggttat 180
 tgcctcaagg gtccccaaca gcaaggtttc cgggtggaagc ttcaagattg ttgctgtaga 240
 agagaagaaa gagattgaag agaccagca gaccgacaag g 281

<210> 1202
 <211> 281
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700554841H1

 <400> 1202

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 agggatgatt gtagtggtgg gtcgttagaa agcccggtgtg gaatgggata tgttcgtgat 120
 ngagatttgg acttgtagac tcgcaattgg aattgaaaat gtncaagaaa gtagtcccca 180
 actgctaccc taaaaatgtc aaaaagcttt tatcaactgg catccttgac ggagctgtag 240
 tgaagtatat ttacaatcct ggaaagggtg agctacaggg g 281

<210> 1203
 <211> 281
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700554842H1

 <400> 1203

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 ttcctagtgt ccagccattc catgcaatgc atatccactt gacccaatgc ttgctctgga 180
 aattagccgt aaatatgctg cacactgctc ggtaattgca tctcggtttt ctctcctcca 240
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<210> 1204
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 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700554843H1

 <400> 1204

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Sequence "GATGTA"

tgcanccagt ataatgtatt ggagccgcaa caacagactg aggacatgga ttcattccct 180
tcacctgccg gcactgctac taccaccacg cctgaagcat ccccggcacc ttcggtatgt 240
ggtgaagatg aaagtccctc tattggcggc gaattctcca a 281

<210> 1205
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<212> nucleic acid
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<223> Clone ID: 700554844H1

<400> 1205

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gagaggnc 128

<210> 1206
<211> 256
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554845H1

<400> 1206

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agattccoga gaaagacgct tcctcggaca cgcccgggca aaatcccggg acgcgaatgc 180
cggcgacaaa gacggagcnt ntgacaatca ggaagtagaa gagaaagacg ccgctgagga 240
gaagaaagaa gagatc 256

<210> 1207
<211> 284
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554846H1

<400> 1207

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aagcaatatc atttacacat gccaatgttc tatggctcat gggctgaagc tagagcaaga 180
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<210> 1208
<211> 274
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700554847H1
<400> 1208

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tattgaacag tggcaaactt atgcactatt gtcacagggt aaagagtatg tatttgttgc 180
caattcagat aacttgggag ctatagttga cttgaaaatc ttaaattcatt gatccagaac 240
aagaatgaat actgtatgga ggtgactccc aaaa 274

<210> 1209
<211> 264
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700554848H1
<400> 1209

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acttcagatc actttgacag gttgacttgt ccggcaccaa cttctggtat tactattgtc 180
tgagttctca ggagttcttt cacagaagggt agatgggttc tagaatccca tctcataagc 240
ttagcaatgg cctctacgta tcag 264

<210> 1210
<211> 276
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554849H1

<400> 1210

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 tggacctggg gtttcagctc ccagtcaccc ttctttggga gcagcttgaa gaagggttatt 180
 ggctcaaggg tccccaacac aaagatttcc tctggaagct tcaagattgt tgctgtagaa 240
 gagaagaaag agattgaaga gaccagcag accgac 276

<210> 1211

<211> 277

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554850H1

<400> 1211

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 acaactgagg tggcactttt ccttgccctcc aacctctttc acttgcaggc ctcataatca 180
 gcaccatcct aaacagtttc tatgtcctca ccataagctt cattggaaga atcttaggtg 240
 gtgcaaactt caacccttca acaagtcttt cattcta 277

<210> 1212

<211> 275

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554851H1

<400> 1212

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 tatggtgccc gtactccgga ggtaaatgcg caagttggag gcttgctgtg gaagcacaca 180
 acatcttttg ctttgagacc attcctgaag agtgcgttga agcaacaaag gaatacatcc 240
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<210> 1213
 <211> 275
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700554852H1

 <400> 1213

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 gttagtctcg tggctaaggc ggtacagaat atcagtatcc ttggcgtgag aagttgggga 180
 aatataagga tgagcttgcc aaggggtgtgt ggggatactg ggagctgggg gcatggaagc 240
 cgctgagtat cagtgcctcg catcgtgcta gaatc 275

<210> 1214
 <211> 171
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700554854H1

 <400> 1214

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 cnctagctac acacaacctc tgnatattct ccgcgcgcgc ttacgatcga tgctatnata 120
 gtgttccta nctacctnat ggcncnctct tcactncaat gcaaagtctt c 171

<210> 1215
 <211> 49
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700554855H1

 <400> 1215

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<210> 1216
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 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700554856H1

<400> 1216

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cgactatgaa taaattgtta ataaagggtta ttcattaccc accttctttt ctttacataa 120
aataaacata aata 134

<210> 1217
<211> 271
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554857H1

<400> 1217

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gagtgtgcag agaaccatca aggctgcaga gaaatctcat gtacctagct gcaatagctg 180
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<210> 1218
<211> 278
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554858H1

<400> 1218

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ggcctaattg atgacccaaa agcaggttac caatcagcat ttggtggctg cttcctcagt 180
acatgatcac tgggatctct gatgcattca caattgtggg gctacaagag ttgttttatg 240
accaaagcc tgaggcactt aggagtttgg gggctgca 278

<210> 1219
<211> 279

<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554860H1

<400> 1219

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atatgagaat cttttttgcc ggtttatcct caagcgtaga ctttttagtt atttcttatt 240
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<210> 1220
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<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554861H1

<400> 1220

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ggaggggttc tggtcgagta ggtgcggaca cacgggtcct ccgtgggggc gcgtgtgaac 180
ggtaagaggt ataagttcgc ctacatgtgg gtgggtaact cagagacaca gtgccctggt 240
caatgcgcgt ggccgttcca ccaacccatt tacgggtccc ag 282

<210> 1221
<211> 282
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554862H1

<400> 1221

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attgcatgca gaaactatgt gcagaaaaat atctcctgat tctactagaga aggcccaaaa 180
tcgtgtgata gatgctgcac tcacacttgt tcgagaaaat acaaggctta agaaagaatc 240

gtgcatagtt tgggaggtgc tgtggcaatt caactcttct tg 282

<210> 1222
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554864H1
 <400> 1222

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 aggctcttcg tttgcatgat gaaatgggtgc agaggggttt tttgcctgat aatgttacct 180
 atagtgtgct tattaatgga cttaataaga aagctaggac aaaagtagca aagaggctct 240
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<210> 1223
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554866H1
 <400> 1223

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 tctaggcaag gctgggtctga tcctcaggag acagcactcc catgggttcag aaccgggtgtg 180
 ttcccacctg caggaaccta caactactgg gcagactcct acacactggt cgtgtttgag 240
 atggcatgat gggatttgca gagcacagaa ga 272

<210> 1224
 <211> 271
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554867H1
 <400> 1224

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gcagtgtcca aatcataagg gnagttgcaa attgcaatgg ctaagcatga tgttgagggg 120
 gggttccttct ctgcaaagga taccatgatc ctctccagc accgttgatt gatgctgagg 180
 aactcacaca gtggtccttc tacagggctt tgattgctga gtccatgcca caatgctctt 240
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<210> 1225
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 <213> Glycine max
 <223> Clone ID: 700554871H1
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 caccactggg cttggccaga ccctccctcg cagaagaaat tgagaaagca gcactctttg 240
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<210> 1226
 <211> 277
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554872H1
 <400> 1226

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 ggagggggtt tggttcgagta ggtgggaaca cacgggtcct ccgtgggggc gcgtgtgaac 180
 ggtaagaggt ataagttcgc ctacatgtgg gtgggtaact cagagacaca gtgccctggg 240
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<210> 1227
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 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700554873H1

<400> 1227

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tggtattagaa ctnnnatttn cctttntgct tgaataatga gatcatacca tatccaatct 180
cattattcaa gcaccanaga aaatgagatt ggatatggta tgatctgtgc ttagaaatta 240
tnattagaca tggggatgcc aanttctgtg anggaatgtc 280

<210> 1228

<211> 277

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554875H1

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ggatatctta acaatgccaa tgggtgttgc atatgtctgc aatgtggctt ttcccacaac 180
tttgcttggg tggaatagct gaagcattca atgcaatagg ccaaaatgag ttctattaca 240
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<210> 1229

<211> 280

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554876H1

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<210> 1230
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<223> Clone ID: 700554878H1

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<210> 1231
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 <213> Glycine max

<223> Clone ID: 700554879H1

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 ttttggtatc atttccaaaa ctatagattt gaacattgac tattgcaagg atatggtgaa 180
 attgcctact gggatctgtg atattgtctc actaaagaag ctcagtatta ctaattgtca 240
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<210> 1232
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 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700554880H1

<400> 1232

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121

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<210>      1233
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<223>      Clone ID: 700554881H1

<400>      1233

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aagtctgagt ggggtgaagga caaacacttc gccaaccttc tgctgcatca gttgtgagat  180
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<210>      1234
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<223>      Clone ID: 700554882H1

<400>      1234

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tgtnggtgaa agctgtaaaa tggacttct attgtcatgc acagattgat tattcaatgt  180
acaaatacct atttaagttt aaa                                203

<210>      1235
<211>      272
<212>      nucleic acid
<213>      Glycine max

<223>      Clone ID: 700554883H1

<400>      1235

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<400> 1238
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<210> 1239
<211> 275
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700554888H1

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ttgttccagg gccggttaac atccggacca gatcatccgg gccatgaaca gaaacaatga 180
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<210> 1240
<211> 271
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700554890H1

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ttcacaacct gggctctctt caaatctaag acaaaagcgc tctgtgaaga ctaaggttac 240
aagccaaagc aaagggtgaag atggtatctt g 271

<210> 1241
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 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700554891H1

 <400> 1241

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 aacatattgc cctgggagta tcctagtcct cccccagaat attcaacctg cttgggtgat 180
 ctgtacagtg ttgcttgat ggaagacagt gacagacaca atttacgaac agaaactctg 240
 catcaacaat ataaattggg taaagag 267

<210> 1242
 <211> 278
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700554892H1

 <400> 1242

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 accgatgatt tcgttcgttt cttgccaaga aagtaataca ccatgaattg ctccagcatt 180
 ttcaacatca gtcaatctac atgcaagcag acgatgtgaa tcctccctcc atcagatttg 240
 agaaaataat ggggtactcg tgaagttggt tatcttct 278

<210> 1243
 <211> 279
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700554893H1

 <400> 1243

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gaaaagcatg agnntcatca gacggatgat gctttggct 279

<210> 1244
<211> 278
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554894H1

<400> 1244

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gcgaacaata tagatcagac tccaaaacag ttaaccaa 278

<210> 1245
<211> 282
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554895H1

<400> 1245

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ttgcaaacga atttggatat agcgttgcag agaacagaga tt 282

<210> 1246
<211> 281
<212> nucleic acid
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<223> Clone ID: 700554896H1

<400> 1246

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 aggatgaaga agacaagcct catctcagga ggaggtcatc gccaccgagt ttcaaaaagt 180
 cactgtctca gaccaaggag agaacagcac agcctcttag aaaagcttca ccgatctgac 240
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 <223> Clone ID: 700554901H1
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 aagagcctga acgtccctct caaataccgc tccatgaact ctttctggaa gtactattcc 240
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554903H1
 <400> 1248

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 ttcattcctt actgggacac tgaaaaggtc actccgaagt gataaaaaaa ttcaagaaaa 180
 aatacgaacc caccgcactg agggttaagg ttcttgtcag cattggaaac aaaaacaaac 240
 aatttccttt caccattggc tcggactcga acagcgaana tgggtctccg ag 292

<210> 1249
 <211> 291

<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554905H1

<400> 1249

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ttccagtttc ataaattcta caccatgggc acgggggttct acggccacaa gattgtttca 180
cccaccgcat cgctgttcca ccggcgggggt tttcccggag aagaacctct gggacacaca 240
acaacaatta cttcaggggc acgcggaagc cggttaccgc acccgaacag a 291

<210> 1250
<211> 255
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554906H1

<400> 1250

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ctcttctgcg gggtttgcca ctctgatctc cacactctca aaaacgactg gggtttcacc 180
acctannctt gtcgttcctg ggcatgaaat tggttggtgt gtgacagaag ttggaaacaa 240
tgtgaaaaac ttcaa 255

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<211> 289
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554907H1

<400> 1251

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tcattcctta ctgggacact gaaaagggtca ctccgaagtg ataaaaaaat tcaagaaaaa 180
atacgaaccc accgcactga gggttaagggt tcttgtcagc attggaaaca aaaacaaaca 240

atttcctttc accattggct cggactcgaa cagcgaanat gggctctccg 289

<210> 1252
 <211> 289
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554908H1
 <400> 1252

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 tggctatggg gagcgttctt cggaggtaaa atggcaagtt ttaggcttgc tgtggaagca 180
 cacaanatcc gagcnttaaa accattcctg aagagtgcgt tgaaccaaca aaggactana 240
 ttaatggcga acaatttaga tcagactcta aaacagttaa ccaacaagc 289

<210> 1253
 <211> 289
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554909H1
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 agcttgctat gtatcattga ataattctac tggaacatcc atctcaaaga caggaacatt 180
 tggatcttga attggagggtg ttactaatag aagcatggct aagagtgtgg aaggataaaa 240
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<210> 1254
 <211> 287
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554910H1
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 tgaagcttca agctatcatt cgtggccgag cataagacgc caagctatga gtactcttaa 180
 gtgcttacag tccattgtga gtatccagtc acaggtctgt gcaaggaggc tccaaatggt 240
 tgaagggaga tgtgattact ctgaaaatga agacatgcaa gattcta 287

<210> 1255
 <211> 285
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700554911H1

<400> 1255

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 ctccgaatga aaactggcta tggtagcggt cttcggaggt acaatgcgca agtttttaggc 180
 ttgctgtgga agcacacaac atccgagcgt ttaaaacccat tcctgaagag tgcgttgaac 240
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<210> 1256
 <211> 285
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700554912H1

<400> 1256

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 ctcccttcac aaaacccaac ttcatgcact cttcacgctc ctcaaccacc caaattcagt 180
 gtggctctgag agaactcaga acccgcatg attccgtgaa gaacactcag aaaatcaccg 240
 aggctatgaa gcttgtggct gcagccaaag tgagaagagc tcaag 285

<210> 1257
 <211> 284
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700554913H1

<400> 1257

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 caagtcattct cctgttcttg acaagtgcga gtnggtcaaa ggccagacc ttcgccaacc 120
 tctcgtgaga tgtaaccctt cctcagnana gctctcacca ncaaagctgc ttcctatgct 180
 gacgagctcg tcaaaanngc naaaacagtgc gcctcaccgg ggctgtgtat tttggcgatg 240
 gatgagtcaa atgcaacctg cgggancgt ttggcatcta ttgg 284

<210> 1258

<211> 287

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554914H1

<400> 1258

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 acgatcagtt gatataattt cccattgcct tatgcaggaa tgtctgtggc aaggtttgac 180
 ttttcatggg gtgatccaga ataccatcaa gagacattgg aaaatttgag agttgctatc 240
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<210> 1259

<211> 290

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554915H1

<400> 1259

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 ctttctctc cttatcatcc tcttccaaac tcaatgcttg cncctctctc ctgcatttc 180
 gcacctcttt ctcaatcagc aaagagcgga ggttcgctt tcgagtggag gatacggaac 240
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<210> 1260
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554916H1
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 agccctacgg catccgaagc cgagattaag aagcttatta cattaaggca cggcaagtgc 180
 atccagataa aaacccaaat gaccctcttg ctgcacaaaa ttttcagggt ttaggtgagg 240
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<210> 1261
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554918H1
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 catcatatgg catggtctgc ttcattggaca atanagcaga agtgaaatat gcatctgcaa 180
 cccaattacc aaaacctaca ggaagcttga ggagcctcca ggtttganag tttctgatta 240
 cagtgcatta gcaatctcag tgaacaggga atctcactgt tatactgtg 289

<210> 1262
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554919H1
 <400> 1262
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 tagtgcagaa acaatacggg gggcactaaa cttggagtc aatgtcaaaa tgattacagg 120

ggatcagcta gctataggaa aggaaacagg ngtcgcttgg gaatgggtac caacatgtat 180
 ccttcatcag ctttacttgg gcaggacaag gatgaatcca ttgttgccct gccaatgtat 240
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<210> 1263
 <211> 289
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554920H1
 <400> 1263

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 cantttcttc cgccgcaaaa ctctccatca attcccacga tcccaatttc ttctcaatt 180
 tcccttcctg tccgagcgac gaagcagtgg agctggagtg gctctcccag ttcgtgaacg 240
 acgaggcgac gtcgtttcac aacatcccac caccgcgcatc cattggatc 289

<210> 1264
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554921H1
 <400> 1264

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 gttcagggtc cggcatcgcc tanaacaagc tcaccgacaa cggcgccgcc antcccgccg 180
 gcctcatctc cgcttccatc gccatgctt tcgccct 217

<210> 1265
 <211> 285
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554923H1
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tagggagaga tcgcacggga gttgcccggn tctctctctc gtgtgggtgtg tgggtgtttgc 180
tgtgctctcc tnttcgttat gccttttatt attacctatc tgtoctcca ctccgtatta 240
cgactctgga tcagagggat acatcagagg attcgtcca actcc 285

<210> 1266
<211> 278
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700554924H1
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tgatgctccc actcggagtt gtcattgtga caatgttttt gaagaccag atggccttaa 180
agaacagctc ttgcagcttc gagctgcggg tgttgacggg gttatgggtg atgtgtgggtg 240
ggggatcata gaactgaagg ggcctaagca gtatgatt 278

<210> 1267
<211> 284
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700554925H1
<400> 1267

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ctggttaacc ggttcanatt ttctgttttc ngctgaattt tgaagttgca gctcgatctt 180
cgatctgggg tttcgggtga ngtgacacgg taggtagccg gtgacgttgc ttgggtgttg 240
tggatctggtt ccagaaaaan naagaaggga caaggnaaga naga 284

<210> 1268
<211> 285

<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554927H1

<400> 1268

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gaagctcctc aaggaaggtc aaggctgcnn nccccgaag tcggtgacga agtccaagtt 180
cattacacgg ngactttgct cgacgggact aagttcgatt cgagccgcga cagggattct 240
cccttcagct tcacgctcgg acaagggcaa gtaattaaag gatgg 285

<210> 1269
<211> 283
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554928H1

<400> 1269

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atactgataa cgctgaaaaa aaaaaaatga attggcttta atangttatt cccaacaatc 180
ggnttttcgg cgagacataa tcaaaggntc tatangtgct caaaggngta aaacagttac 240
ttggaaattt ttncaaaaaa ggggtgcattc cccctttttt ttg 283

<210> 1270
<211> 282
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700554929H1

<400> 1270

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gtcacttttg gcagaacata caggaacaat tgaagagtgc tttttgcaac ccgagagcct 120
tgaatgtgta agaagggtta aagcaatggt gaaatgaact ggaaacaatt ttcagctaag 180
gaagcaacag agatgaaagg gcactactg aaataccgg tagaagttga tcgaaatggc 240

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282

<210> 1271
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554930H1
 <400> 1271

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 ctacctctca ctgatgaaga atacatccac atgccatttc tgaaggaaaa aggttccgag 180
 attcacttga aattattgct cttcttaaaa aagcttatga atcctanagc agtatgaaaa 240
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<210> 1272
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554932H1
 <400> 1272

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 aagatgtgca gagatctgag gcacaagggtg cgananatatt ggaggtggag gtggatccga 180
 agggaggacc gatgattcaa gaggcggcga tgaagctcta cgtttcgaag agcgagttcg 240
 agaaggttca ttgttgcagg cgatgcaggc gattnaacgc ggcgatgaa 289

<210> 1273
 <211> 289
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554933H1
 <400> 1273

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 cgctgtcttc ggcgccggat ggtggatctg gttgacggg tegtctgcag cttggtcacc 180
 gttcccttcc ttactacct tcccggaatt ttgcacatctt ttgcggcttt gatgttcaat 240
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<210> 1274
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554935H1
 <400> 1274

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 tctcagactt gtagtctatt gagccaatag tcaaggaaaa ggttaccttc ggagacctta 180
 ccctcgggat gacttgcaact gccgaaacaa acggttcccc tgagacatcg tgcantctg 240
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<210> 1275
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700554937H1
 <400> 1275

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 ctactctttc ccttccttcg tctccaagc tcaactctctc tcgacctcga cctcttgcca 180
 nttcccagcc acttcgacgc tttcncagat ctggtgcacg cnccgctggt cgcttaccgg 240
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<210> 1276
 <211> 284
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700554939H1

<400> 1276

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tccttctctg ggaaggacta ccaggacctc caccagcacc actcattgat gctgaggagc 180
tcacaaagtg gtcccttttac agggctctca ttgctgaatt cattgccact ttgctcttcc 240
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<210> 1277

<211> 285

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554940H1

<400> 1277

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ttgctancgc tgtggactct gcgatttcnc cccattgggt ccccgccct gtgagaagga 180
cgcaaagnen ttgcggttca tcgaagaaat gactcgcaac gccgacgccg tccaggagag 240
agtctggag gagattctca cacgcaacgc ccagacagag tacct 285

<210> 1278

<211> 282

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554941H1

<400> 1278

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aaacatttcn tcacgtaccg aagcattatt caaagaaagc catgactgat atggacagta 180
ccaatatcta tgcctacatt tccatcattg ctctaattgt gtgtatacca cctgccgtaa 240
ttttggaagg gccacactg ttgaagcacg gcttcaatga tg 282

<210> 1279
 <211> 282
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700554942H1

 <400> 1279

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 tcgtctttgc ctgatgaagc tgtttacgca aggagcgacc cggagttaca tggccgaagc 180
 agttgaatgc tccacttgag gtcgtggatc ctgagattgc tgatattatt gagcttgaga 240
 aagctaggca atggaagggg ctagaattga taccgtcaga ga 282

<210> 1280
 <211> 269
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700554943H1

 <400> 1280

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 ttgtgctctt tgttgattgg tagtagcttt gttgcaagcc aacttgggtt gtctctagct 180
 tggaagggtt ttcttgtggt tcagatagta tgttggacag ggcagttcat tggcatgga 240
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<210> 1281
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 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700554944H1

 <400> 1281

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154

<210> 1282

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<212> nucleic acid

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<223> Clone ID: 700554948H1

<400> 1282

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agggtcagca tgaggaagac cgtcaccaan aggcctctc cggaagccca tggtagggcc 180

cagaccgct caagtacttg ggcccattct ctggcgagcc cccgtcctac ctactggcg 240

agttcccagg tgactacggc tgggacatgc tgggctttcg gccgac 286

<210> 1283

<211> 288

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554949H1

<400> 1283

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cacttcccag ccaactnnnn nctttncag atctggtgca cgcgccgtcg ttcgcttacc 240

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<210> 1284

<211> 284

<212> nucleic acid

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<223> Clone ID: 700554950H1

<400> 1284

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 <223> Clone ID: 700554951H1
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 cttctccaac aanagttnngc tctancancc tggcctcctt gctcctcctc agattgaanc 240
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 <223> Clone ID: 700554952H1
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 <223> Clone ID: 700554953H1
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<210> 1288
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 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700554954H1

<400> 1288

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 <213> Glycine max

<223> Clone ID: 700554955H1

<400> 1289

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<210> 1290
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 <223> Clone ID: 700554956H1
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accaggaaaa gtgaactggt tgtggctgat gtcaacaccc agttgaagaa caaaaacatc 240
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<210> 1291
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 <223> Clone ID: 700554959H1
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ccttaatctt ctttcttcac aattttattt ccttccttat tagacgtatt agatcagatt 180
gaacaaaagg gnnnnnnnnn nnnnnnnnnn nggggaataa taganataag aaaagattag 240
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 <223> Clone ID: 700554960H1
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tgttggttcc cagaatttac aactttggtg actcaaattc agacacagga gctgtttttg 180
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268

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<213> Glycine max

<223> Clone ID: 700554962H1

<400> 1293

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<213> Glycine max

<223> Clone ID: 700554965H1

<400> 1294

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attcaattgt ggtcctgtcg gtgcccattc cagacgacga tgtcatcttt atatagaggg 180

gaatccaggn nttncnaaca ataaaccaag aggacgtcat aatttgacaa cgcagaagaa 240

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<210> 1295

<211> 281

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554966H1

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gcagtgatct cttctatgat atatttcgtc gacttgatgg tgcaacattg gctagtgcng 240
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<223> Clone ID: 700554967H1

<400> 1296

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tttatgcagt ttttgatggc catggggggc ctgatgcagc agcctttgtt aagaggaatg 240
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<210> 1297
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<212> nucleic acid
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<223> Clone ID: 700554968H1

<400> 1297

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tgagtgtgtc ttcaaattcg aaggatcgat ggaattatgc atatttgatt tgccggagagg 180
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<210> 1298
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<213> Glycine max

<223> Clone ID: 700554969H1

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atattgctcg tatactattt tttcaatttc ccgaatgggc ggaagatttt agggattgga 240
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<210> 1299

<211> 279

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554970H1

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gattcaggtc ttccttgggc aggatgggtg gnttgatgtt gaaggaaatg agctaccccg 240
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<210> 1300

<211> 277

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554972H1

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tgattttgat actcactcgg gagtgttctc cttcttatct tatcgtgatc ccaatttgct 240
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 <223> Clone ID: 700554973H1
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 <213> Glycine max
 <223> Clone ID: 700554976H1
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<213> Glycine max
<223> Clone ID: 700554977H1
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<213> Glycine max
<223> Clone ID: 700554978H1
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<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700554980H1
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 <223> Clone ID: 700554982H1
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 <213> Glycine max
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 agatgatcca gtgggaaggt tgaaggtttt tgtttatgaa cttccaagca aatataataa 240
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<210> 1309
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 <223> Clone ID: 700554984H1

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<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554985H1

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<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554986H1

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 <223> Clone ID: 700554988H1

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 <223> Clone ID: 700554990H1

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272

<210> 1315
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<223> Clone ID: 700554991H1

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<212> nucleic acid
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<223> Clone ID: 700554992H1

<400> 1316

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ggangangat ttgatcanaa aagtgcgaa tgggtggaat ccagtttctt cttctacgac 240
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<211> 275
<212> nucleic acid
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<223> Clone ID: 700554993H1

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<223> Clone ID: 700554996H1

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<210> 1321

<211> 302

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555001H1

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<211> 297

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555002H1

<400> 1322

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<210> 1323
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<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555003H1

<400> 1323

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<223> Clone ID: 700555004H1

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attataacta tntgtgaant gtnacataat caanaccnta tttgttgtga ttgatatcgt 180

gcaatatncn cgtnattacc ataatatata gagtcatatg atgtggtaaa ttgttgacac 240

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<213> Glycine max

<223> Clone ID: 700555005H1

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tgagaattta accaaagtto tctcattcac tgcattgactt ggtgctaatt gcaaataggc 180

accacccctc agtgtttctg gtgttggtta ctgttntact ttctatccat tgctctgagc 240

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<210> 1326
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<212> nucleic acid
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<223> Clone ID: 700555006H1

<400> 1326

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nnnnnnnnnn nnnnnnnnng aatttcactc aagttatcan nngttttcgt tcatagaaac 180
tagaaagatg tgtgaaagta gtagtagcag agtcacatgg gaagggttgca gcgtcttgct 240
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<210> 1327
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<223> Clone ID: 700555007H1

<400> 1327

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aaaatgtttg gttttgttca cttgtacaat ggccaagagg ctgtgtcaac tgggttcac 180
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<212> nucleic acid
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<223> Clone ID: 700555008H1

<400> 1328

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 nnnnnnnnnn nnnnnnnncat ttatccctca gtggaaacaa cagagaatct catttgggaa 180
 gagccaaaca cgactacaga agaagccatg gaaaacgttc tggtcacggg cccgggtgcg 240
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 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700555009H1

 <400> 1329

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 aaatattttt attttaccgt actgaatgtt ttcatggag ttactattgg tggaacctg 180
 ttcaaagcat tcaagagaat tcgggagcac ccgacgttg atgaaatttc gtccttgcta 240
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 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700555010H1

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 tgaagcttca agctatcatt cgtggccgag cagtaagacg ccaagctatg agtactctta 180
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<210> 1331
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 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700555011H1

<400> 1331

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 ggaaggacta ccaggaccct ccaccagcac cactcattga tgctgaggag ctcacaaagt 180
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<210> 1332

<211> 285

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555012H1

<400> 1332

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 aaaatcgttg ccgcggaaaa agagattgat gagaaacaac agacagacaa ggacagatgg 180
 aaaggctctg cctatgatgt ttcagacgac cagcaagaca tcacaagagg gaagggtttg 240
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<210> 1333

<211> 287

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555013H1

<400> 1333

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 ccatgttact ggcttggttt gaatctaaat cgtaatgcac ttgctccaga ggaagcagag 180
 gagataaatg acgaatatga tattaatat atttcagata attcagccat tagaaataaa 240
 acaataggtc aaataactac tcatttagat cagataccga taggaaa 287

<210> 1334
 <211> 283
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555014H1
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 cctgtgttga tgatgagagg cttgagtttc aggatggaga tcttggttga ttctctgaag 180
 ttcatggtat gaaagaattg aatgatggaa agccaagaaa gattaaagat gctagagcat 240
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<210> 1335
 <211> 284
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 <213> Glycine max
 <223> Clone ID: 700555015H1
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 acctttgatc tccaaacgct tcatcagacg tgaagttatt gtgacttcat ctgttttgac 240
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<210> 1336
 <211> 285
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555016H1
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atgccaccca caagacaaga aagcgttgct ccaactccag aaggacctcg gcaaccctta 180
 tcacatcata tcctggaacg caaaggagga ttgctgcgag tggttctgct gcgttaagtg 240
 tgacgagaaa acaaaccgcg tcattagcgt tgccttatca tcccc 285

<210> 1337
 <211> 293
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555017H1
 <400> 1337

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 agctaaggaa ctggtgaaga attggccttc agagctattg aacatagtgg attctacgcc 180
 ggatgacact gtcattaaga ctccattagt agataggtgg ctttggccag ccataagtcc 240
 ttctgcttct gcaggaagag ttgtggtggt tggagatgca tggcatccaa tga 293

<210> 1338
 <211> 100
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555018H1
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 cgtngccgga gacgcactga gtctgananc ngcggtnact 100

<210> 1339
 <211> 290
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555019H1
 <400> 1339

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cgtttctctc aagtgcggtg actgcngtgc tctgctgaga accgtagaag aagcgcaaga 180
gcacgctgaa ctacactccc actccaactt ctccgaatcc accgaaccgg ttctcaacct 240
catctgcacc gttgctccaa accctgccga tccaaaaccg agagtgattt 290

<210> 1340
<211> 290
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555020H1

<400> 1340

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tggactccag ttgtgtttgg tggtcttctg caactattac gtaattcatc aaattttaaa 180
atcaggatac aagctgcagc agcattggct gtgccaatgt caatgcaaga ttatggccta 240
tccttttcag agattgtgca atctgtagag catgtaatgg agaattattga 290

<210> 1341
<211> 291
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555021H1

<400> 1341

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aatgcttgcg ctctctcct cgcatctcgc acctctttct caatcagcaa agagcggagg 180
ttcgcgtttc gagtggagga tacggaacgg tatcggcgcc gaagtccgtt gcgtctgatc 240
ctgatcagtt gaagagcgct agagaagaca tcaaggagct tctcaactcc a 291

<210> 1342
<211> 290
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555022H1

<400> 1342

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aaccccctcg tcacccttcg ccggaagata atgacggcac atgatcgatg gcaagctttt 180

aggggtgaaa gcacagatgc caaagatcta atctttactc tgaagcggtc gtcccttata 240

cagttaaga ccaaattaca tgtgtttttg gccataaca ccaaagaaga 290

<210> 1343

<211> 268

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555024H1

<400> 1343

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taactggagc cggcgataaa aggaacagtt aatgtgttga aggcggcgaa ggaagcgggg 120

gtggagcgcg tgggtggcgac ttcgtcgatc tcattcatta tgccaagccc taactggcca 180

gctgataaga ttaaggcaga agagtgttgg acagaccttg aatactgcaa acagaagggg 240

ttgtactatc ccattgcaaa gactctag 268

<210> 1344

<211> 285

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555025H1

<400> 1344

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tgaaacctct tgattctttg cttagaattc cacagaatat ggagaannnt ctnttcaatg 120

actccccacc tttggagtgc aagggtatga gcaaggagga ggaagactca ttgctagggc 180

aagttgaaat atggaggtag atgacatgct tcacggactc cgtggccttg aaatccgtca 240

tagagctgcg catagccgac ataatagacc gttatgggaa accac 285

<210> 1345
 <211> 222
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700555026H1

 <400> 1345

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 ccactgatga agaattgggtg aatcactact tgtgtaggaa gtgcgctggt caaccaatcg 180
 cggttcccgt catcaaagag gtcgatttgc acaagtttga tc 222

<210> 1346
 <211> 252
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700555027H1

 <400> 1346

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 ctgttttcgt gctgaatttt gaagttgcag ctcgatcttc gatctggggt ttcgggtgaa 180
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 aagaaggac at 252

<210> 1347
 <211> 251
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700555028H1

 <400> 1347

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 tctgtttctc tcaactcact ctggtcggcc acggccaggc agaggctctc ctctcacaga 180
 acaagacca ttttccggaa ttattcctct gcggttccaa aacttacagt ggtgacatgc 240

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251

<210> 1348

<211> 281

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555029H1

<400> 1348

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cgatcagttg atataatttc ccattgcctt gatgcaggaa tgtctgtggc aaggtttgac 180

ttttcatggg gtgatccaga ataccatcaa gagacattgg aaaatttgag agttgctatc 240

aaaagtacca agaaactctg tgcggttatg ctagatactg t 281

<210> 1349

<211> 283

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555030H1

<400> 1349

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actacacccc agatccacat gctggaagtc cccccacagg tttctccgat tctctgtgct 180

cacacaatag tagtcctcca tctcatggcc atgggagctc tccaccctca catcacaata 240

gtccaagtac tccatcaaca cctcaggtg gaaactgtgg atc 283

<210> 1350

<211> 283

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555031H1

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cctttctccg attcactccc agagcgaaga agccgccatg ggaggcgagg agaagcggca 120
ccagatgatg cagaacctct tcggagacca atccgaggag gaggaagagc tcgacgttga 180
ttctgagcac gaatcaaacc cgcaactcaa ttaccctctc gacgaggggg aggggggtggg 240
ggagcaggag ggcgaggtgg agggccaggg cgaggtggag atc 283

<210> 1351
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<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700555033H1
<400> 1351

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gctgctgcct aggcattatg aagttaatcc tagactcaag atntgaggct actttgatag 120
aagaaacatg tagtgcncaa aaacaaaaag ggaccanagg angaggnact tcangttgga 180
ataataatga gagngaagan aagggtacgt ncttgagttg gaatgatnta aggggtgactg 240
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<210> 1352
<211> 289
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700555034H1
<400> 1352

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tctttattgt ggaaacaaaa taagaaagtt tcaccacaaa gttctgctaa atttagagtg 180
atggcaatta agtctgacaa tagcatcatc aacaggctag aggggtctact taatttggat 240
atcactccat tcacggacaa gataattgct gagtacattt ggattgggg 289

<210> 1353
<211> 289
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555035H1

<400> 1353

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 ttcattcctt actgggacac tgaaaaggta actcccgaag tgataaaaaa attcaagaaa 180
 aaatncgaac ccaccgcact gaggggtaag gttcttgtca gcattggaaa caaaaacaaa 240
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<210> 1354

<211> 285

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555036H1

<400> 1354

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 ctttgtgata ttcttcggtt caaagattta atgggggttat ctgagaattt aattgatggg 180
 ttttgttttg ttgattgagt tttattgctt taccggcagt tattccttga ataaaagaag 240
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<210> 1355

<211> 265

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555037H1

<400> 1355

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 tacgaccoga actttgtccc cgactcggtta naatctttng tggtncacct gtaccgtcac 180
 atccgtgaaa agaacgtgta cgagatccac cagatgtacg agagctcctt ccagaccctc 240
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<210> 1356
 <211> 287
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700555039H1

 <400> 1356

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 ttgttgcagt gaaaagactt agtctggata gcttccaagg tcagaaggat tggttggatg 240
 aagtaaacta tctaggccag ctttctcatc ctcacttagt gaaatta 287

<210> 1357
 <211> 286
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700555040H1

 <400> 1357

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<210> 1358
 <211> 283
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700555041H1

 <400> 1358

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ggcatgcaaa atgaaaaatt atatgctgca gatggtatgc ttaatacaaa aatgaggcga 180
gcagagaaga agaaaaggaa aaaggccaag aaagccggag cctcatcgga tcccgtggat 240
ggtgattatg acttcaaagt tgattacttc caaaaggag cct 283

<210> 1359
<211> 280
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555042H1

<400> 1359

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aggtgattca gtgacaaatc tccacttcaa tatgcgtgac atggtgtacc ttttggttca 180
tacaaatgaa gtaaagctga aggactggca gagaactana attgaaatga tgcanaaagc 240
taaagctaata aaggaatttg aggcaaaaga atcacatggg 280

<210> 1360
<211> 279
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555044H1

<400> 1360

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tggaagggtt caagtgaggg cctccatgaa ggagaaagtt gtgacggggc tcaccgcagc 240
tgcattgaca gcttcaatga tggttcctga tgtggctga 279

<210> 1361
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<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555045H1

<400> 1361
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 nganatatgt ttatggttat ggattcagca ganaggtgct tagattctca actatggcat 180
 gcctgtgccg gtgccatggt tcagatgccca cccctcaaca caaaagtctt cgnctttccc 240
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<210> 1362
 <211> 141
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555046H1

<400> 1362
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 atacaaatgc attgtgattg g 141

<210> 1363
 <211> 279
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555047H1

<400> 1363
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 tennnnnnnn nnnnnnnnnn nnnnncgcta taccagcagc agcattttct tttccatttc 180
 caacatcaac agcgagagaa aggatcatcg atcatcatgt cgttttcggt tttcaaggct 240
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<210> 1364
 <211> 279
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700555048H1

<400> 1364

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agcatcaagt gcgttcgtgt tggcgggtgtg gagattccga acaacaagcg aatcgagtac 180
tcgctgcagt acattcatgg agttggaagg accagagcga aacagattct ctgtgatatc 240
caaatggata ataaaatcac gaaggaactc actgaggag 279

<210> 1365

<211> 285

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555050H1

<400> 1365

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tgagctcata gagaaatcat agtttggtta atttcaattc tgagcaaagg tcaacatgca 120
agttttttcc attgaaggcg aaagtgtttt gtcagttgtt ggtccaaggc caatggaatg 180
gtctactgtt ccatacaatg cccctcaagc tcctgggcca aatggaaagc agcggacctc 240
aagtttgga taccgatca tggtgctgtc aggtcaccag agtgc 285

<210> 1366

<211> 286

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555052H1

<400> 1366

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gcaatataca gatcacagag cattacagta ttatccatgc tgggtgctcag agcaaaggag 120
aattttctag gcttgactat cagaccaggc aatttttaag aggtgcatca gccttttaggc 180
gtcttggtgc caagctacca ccaagagctc attctgtgta ctacagggat gaaattggca 240
acatttccac ttctagtta tggggtgact caaaaaaaga cagaac 286

<210> 1367
 <211> 285
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700555053H1

 <400> 1367

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 tcagccttcc catctctcct ttcttcctca aaatccagat ttgccaccgc agttcctctt 120
 tctagctttg gtgtcaccaa tgcctcttct tctcgctttt ctattagtgc tgactggatg 180
 ccaggccagc ctagacctcc ttaccttgat ggttcagcac ctggtgactt tggattcgac 240
 cctcttcgtc ttggtgaagt accagagaat cttgagaggt tcaaa 285

<210> 1368
 <211> 284
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700555054H1

 <400> 1368

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 agcatccacc cagttgattt tctcaaagcc ttgttcccct tcacgtctat gcccttcca 120
 actatgtgtc tttgacacta aacaagtgt atcaagtggc aggagaaggc atgtgggggg 180
 ttctggagtt aggtgcatgg ctgtggggga agcagcaacc actgggacaa agaagagaag 240
 tggatatgag cttcaaacac tcactagctg gttgctgaag cagg 284

<210> 1369
 <211> 282
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700555055H1

 <400> 1369

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 aagatgattc taggttcgag acttgcggtt gttttgtaga atgattgntt gtattgctaa 120

ttattaatatt aataaagatc tgaaaatttc atcacctttc acttttccag gcttctttat 180
 ttgctagatt aatttactgg catatgttat tttaatgtgg atagagagat atggagttta 240
 gttaggaaac accagtggta aagttgtgag aaacaggaag aa 282

<210> 1370
 <211> 284
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555056H1
 <400> 1370

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 ccttgtgtac aagtacagaa taaggcaata catggattca gaaatcagag caatcatggc 120
 gcaatatatg cccttggaca gccaaagcaga agttccaaat catgtcaatg atcaaagagc 180
 atgaaggcaa aaatggggcca atcccttggga atttcacggc aggcagcatg ggtgtgactt 240
 ttcctgtgcc attttgaact ctggtcattg aacttaatag actg 284

<210> 1371
 <211> 278
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555057H1
 <400> 1371

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 tatagttctc acttacttga actatagggg tatgaccatt ntgggatggg ttgctgtttg 120
 tttagggggtt ttctcactcc tcccttttgt gggttatgggg tttttgtcaa ttccagacct 180
 aaagccttca agatggactg tgacaaatct gaatgatgtt aactggaatt tgtatctgaa 240
 tactctatatt tggaatctca actattggga ctccataa 278

<210> 1372
 <211> 278
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555058H1

<400> 1372

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 cttctttctac ctttcaagtt ttaaaagtat aaagatggca gagacattcc tatttacctc 120
 agagtcggtg aacgagggac accctgacaa gctctgcgac caaatctccg atgctgtcct 180
 cgacgcttgc ctgcagcagg acccagacag caaagttgcc tgcgaaacat gcaccanaac 240
 caacttggtc atggtcttcg gagaaatcac gaccaagg 278

<210> 1373

<211> 276

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555059H1

<400> 1373

ggagctctct gtgcccttca gattccgac acggaacctc ctctcacct ctacacacat 60
 acccatcacc tacccttcca agcatcaacc acccttttta actaagtttg tcaacaaacc 120
 caagatttct aaactaacgg tgagagcgca gagaagggca cccattgaag ggctgagcga 180
 tgagttgaac gctatagctc gttgtaacct tgactttgct tacactcgaa gaaggggtccg 240
 cgctgctttc gctgatatgc agcagcagct ggatca 276

<210> 1374

<211> 276

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555060H1

<400> 1374

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 tttgtaattt tactgaaggt gccatgtatt cattccctca aatacgcttg ccgccaagag 120
 ctttagaggc tgctaaacag gctggaaagg ttccagatgt ttactactgc ctcaagcttt 180
 tggaagccac tggcatatcc actgttcctg gttcaggatt tggtcagaaa gaaggggtgt 240
 tccatttgag gacaactatt ttaccagctg aggaag 276

<210> 1375
 <211> 275
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700555061H1

 <400> 1375

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 tgctgaagat cttgatgctg atttgagaa gtatcatgct gaggctatgc aattaaactg 120
 aaggaaacaa cgatgttctg ttttattgct attacatttg cggttgttag ggccatgttg 180
 atggaacacc gccgaattat gtatctttat cacagtcgtg cttttcggaa aggaaaagga 240
 taacttagag tgaaaacttt tacagttgat atatg 275

<210> 1376
 <211> 275
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700555062H1

 <400> 1376

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 tcatttttgt ggaagtgagg gtaagaatgt ttctgggggt aattcagcct gtcagggtcc 120
 tcatggcttg ttacattcag aatcttctac agtagataat ggaaaagctc ctagtatggg 180
 tgctagcacc caaaagttc caaatcccc ttggatgcct tttcctttgc ttcttgatgc 240
 tatcagaaat caggttcctc ccaagggtat ggatg 275

<210> 1377
 <211> 276
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700555063H1

 <400> 1377

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 gctaccaaca acaaacaaaa acagtgttgc ttgattccgc ggtggcgaga accgacgtga 120
 gcggcgagg agaggcgagg aacggtggtc ttcagggttt tctgacgtct ctgttctcga 180

ccctcggcgg tggtttcggg tcaacgtttc aagaaccgca tcaaagtgtt atcatggctt 240
ccgattgga acaacagcaa caaccacca atgttg 276

<210> 1378
<211> 248
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555064H1

<400> 1378

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caaaaccctt tttgttgga cagagtttca gagagagacc cttcacaaca tggcaaaaac 120
gaggccaggc agaaaagact tggattccta caccatcaga ggcaccaaca agatcgtaag 180
agctggggac tgtgtgctga tgcgcccctc tgatacgagc aagccaccgt acgtggcgcg 240
cgtggaga 248

<210> 1379
<211> 284
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555065H1

<400> 1379

cttctccaat tcccccttct ctgaatctag ancgttgagc ttcaanttca gctcatttat 60
gtacgatatg gcgtcaccta acaacgatgc cttgtccatc ttggatacat ttggaactac 120
agctcgtaga gatagaatct ttgattcagc ttttctctcc tttgtctctc ggcttccacg 180
tgattcagcg gncctctctc tgccgttggc cggttttcgc cccctcttcc gaggccgttt 240
ctccggctcc atcactctgc tgtctgcctg tttcaccatg gaag 284

<210> 1380
<211> 284
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555068H1

<400> 1380

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 cttccatggc tctctcatcc ccatccttgg ctggcaaggc cgtgaagctg ggcccatcag 120
 ccccagaagt gggaaggggtg agcatgagga agaccgtcac caagcaggtc tcctcaggaa 180
 gcccattgga cggcccagac cgagtcaagt acttggggccc attctctggc gagccccctg 240
 cctacctaac cggtgagttc ccaggcgact acggctggga cact 284

<210> 1381
 <211> 282
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700555070H1

<400> 1381

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 tctacacaga taacaatgga gcagttgttg atatcactgc aaagtcttcg gcatatttgc 120
 cactgcaaga ggcgtgcatc cacagggtta agcatgttga agaagcaggc ttagttcctg 180
 ggttcaaaga ggagtttttg atcattgggtg agaactcaat agatgatagc ttggtcttga 240
 gtttaaggtc tcttcagttt gaccttgcac gggaacgttg ta 282

<210> 1382
 <211> 281
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700555071H1

<400> 1382

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 gttcgcttca caaagcttcg aatccaattc ctgagtaaca tctgcangaa gtcttctcct 120
 tcaccatgcc accnaagcct ttagactatg ggtcaataaa tgaaaacgtg aagaagagtc 180
 aatatgctgt cagaggtgaa ttataccttc gagcttctga gcttcagaaa gagggcaaaa 240
 agattatatt tactaatgtt ggcaaccac atgcattggg a 281

<210> 1383
 <211> 282

<212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555072H1
 <400> 1383
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 tanatcattc gggaataaat catgaatggg gctagtagca gtaaaanana aagaaaaagg 120
 ggaggtcggc ccaaaagtaa ttactggaat gaagttgaaa aaataggtga catgtggaag 180
 tgcaaccatt gtgaagggga gttccatgga ggtgctacaa gaattaaaga gcatatcatt 240
 ggtggaggaa aaaatattag aaaatgcccc cactatcctg ct 282

<210> 1384
 <211> 279
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555073H1
 <400> 1384
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 ccttataatg ggagcaaacc tccttaaagg cttgaaggan agcaaatact tctatttgga 120
 cagttatagg aattatagta gttcgatata ttttctgcc aattttgggt attctagtta 180
 ttaaaggagc aacacaattg ggtttggtgc aaccagatcc cttgtatcag tttgtgcttc 240
 tccttcaata tgcacttcca cctgcaatgg ctataggca 279

<210> 1385
 <211> 275
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555074H1
 <400> 1385
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 tttgtaattt tactgaaggt gccatgtatt cattccctca aatacgcttg ccgccaagag 120
 ctttagaggc tgctaaacag gctggaaagg ttccagatgt ttactactgc ctcaagcttt 180
 tggagccac tggcatatcc actgttcctg gttcaggatt tggtcagaaa gaaggggtgt 240

tccatttgag gacaactatt ttaccagctg aggaa

275

<210> 1386

<211> 253

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555075H1

<400> 1386

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caaactgctc tgaagcagct caatgagttc gtccgcaaga ccggtggcgc cggcaaaggc 120

cgcactaaca tgcgccgcac cgtcaagagt gtcctcaga gcatttggtg tggccctgac 180

cgtcccaagt acttgggtcc attctcggag cagattccat catacctgac cggagaattc 240

cctggtgact acg 253

<210> 1387

<211> 273

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555076H1

<400> 1387

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caagattcag cttctgctca acaagcatat ccatgcaaga tcaataataa tgctaatttg 120

gtgaattgta atcctaaacc ttttggcact ccttgtagta atatattggt tcatagttcc 180

tcctctggga aatgtgataa gctacaaaag agccttcac tattccatca tgtcgccaca 240

cataaatggc tgtgtggggt acaggattcc att 273

<210> 1388

<211> 276

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555077H1

<400> 1388

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ttccaagtga ctctgtccct cgctagagac tacgatggca acaactcaac caacggaaag 120
 ttcattcctt actgggacac tgaaaaggtc actcccgaag tgataaaaaa attcaagaaa 180
 aaatacgaac ccaccgcact gaggggtaag gttcttgtca gcattggaaa caaaaacaaa 240
 caatttcctt tcaccattgg ctcgactcg aacagc 276

<210> 1389
 <211> 273
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555078H1
 <400> 1389

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 aggctggcca tgctctagtg ggtgctttaa tgccagaata tgaccctgta gccaagatat 120
 caattattcc tcgtggccaa gctgggtggc tcacattttt tgctcccagc gaagagaggc 180
 tcgagtctgg attgtacagt agaagttacc ttgaaaatca gatggctgtt gccctgggtg 240
 gaaggggtgc cgaagagggt atttttggcc agg 273

<210> 1390
 <211> 275
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555079H1
 <400> 1390

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 aatgaaactc caacnnccac tagtgaagta cagaaaagaa gaattggaaa atctaagagg 120
 agatggaaaa ggagagcgca aggnatatga taggatctat gattatgatg tctataatga 180
 tttgggtaac ccagacaaga gcaatgatct agctcgctct gttcttggag ggtctagtgc 240
 ctatccatat cctcgcaggg gaagaactgg tagaa 275

<210> 1391
 <211> 272
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700555080H1

<400> 1391

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 tggcngngtt aaacaaacgt accaaggggtg gttgctcctg cttgtgcatg cttttatcag 120
 tgattggtat agtggggttg gtggttgca tatggctgtt ggtcaaatat ttgtaaagat 180
 aaaaaatacc caactcgtga agtttctctt tttttcatgt ttctgaatgt gcattgaaac 240
 atgataacgt gtttctttgt tttttcttgg tg 272

<210> 1392

<211> 282

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555081H1

<400> 1392

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 ccaacttgat acctctgatt ctttctttgc ttagaattcc acagaatatg gagaagngtc 120
 ttntcaatca ctccccacct ttggaattca agggtttgag caaggaggag gaagactcat 180
 tgctagggca agtggaaata tggaggtaca tgacatgctt cacggactcc gtggccttga 240
 aagctgtcat agagcttcgt atagcggaca tactagaccg tt 282

<210> 1393

<211> 282

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555082H1

<400> 1393

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 tgatccggtta cacaagtcag gttattcatg aatcaggcca tacacagtgc aggggaacgc 120
 cccttctatg attatcttga gagtngcctt cgccacaagt cagacatngt gatttttgaa 180
 gctgccaggg caataacaga gctcaatggg gtaacaagcc gagaattaac tccagcgatt 240
 actgttcttc agctattctt aagttcgact aagccagtct tg 282

<210> 1394
 <211> 280
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700555083H1

 <400> 1394

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 caacagcttt ccaggacagt ttgacagtgc aatggatgaa gatataacctc gattaaagag 120
 cacagcaatt ggcctactta atgacttggg atgcaatgga gccacttttg ctgaggacct 180
 tatcaatgag atgtgtcgat ttggtgcggc agagcttcat gctgttgctg ctttggtngg 240
 aggaattgca tcgcaagaag tgatcaagct cataacaagg 280

 <210> 1395
 <211> 281
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700555084H1

 <400> 1395

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 ggctttgaga ccattcctga agagtgcggt gaagcaacaa aggaatacat ccattggcgaa 180
 caatatagat cagactccaa aacagttaac caacaagctt acttttatgc cagagacctc 240
 gaagtccatc ccaaggacac atttgtgttc agtatagatg g 281

 <210> 1396
 <211> 279
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700555085H1

 <400> 1396

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 cagtttcaat tcctgctgca ccagcatcag ggtctctggc ccctgcaatt tctgttacgg 120

ataatgtgct gaagcacttg aataagatga ggtctgaacg aaatcaagat ttatgtttaa 180
 gaataggtgt caaacagggg ggggtgctctg gtatgtcata cacaatggat tttgaagaca 240
 gggttaataa aaggccagat gattcaatca ttgagtatg 279

<210> 1397
 <211> 281
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555087H1
 <400> 1397

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 cctactcaag ccatgctttg aaaaccatcc ctttttcttc ctttgtgaag cctgtcagta 120
 ccaaaccaac atcattcttc acaccttcac ctaccaaacc tttcttacc ttcacctcac 180
 caaaccactc tctcacaaa aatctcaagc tgaactccac tttgcnacac ttttgcttgt 240
 cttcagttcc caaganatct ttcaattgta gaagccaggc t 281

<210> 1398
 <211> 280
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555088H1
 <400> 1398

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 cttgttcgca cattttcacg gatctaacta agttatcgcc atgaatcgcc accacgatcc 120
 caatcccttc gaagaagaag aagtcaatcc tttttcgaat ggcactactg ctctgcatc 180
 aaagtcacgt attccaccat tagcatctga ntnactgggc tttggtcaaa ggcattgangc 240
 tacagttgat attcctttgg atactacaaa tgactccaag 280

<210> 1399
 <211> 274
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555089H1

<400> 1399
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 tcaggttcga gatgtatgtg ctgcgctctt gacagacatg gcttgggtta ccatgaaaac 120
 atatgttgac atggatacag ggccattcaa tgtgaccaat atttatgagt tccataatgg 180
 acggtggtat atggttcatc atcacagttc tgtggatggg gatgtggacc atcagattgt 240
 gcatggataa tagtgagaga tgatgataca ttgt 274

<210> 1400
 <211> 273
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555091H1

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 ttcaatagct gaatccatag atttccgtac gatagatgtt gngccacaat attcaggagc 120
 aagaatagag ggggatgttg ttactttgaa ttttgtgaaa aaaatgattg aagatttcaa 180
 gaaccagacg ttcttacata aacggtatgc attccagatt gtattgcaaa ccaagagagg 240
 cattgcaagc tttgccttct cttgttgaca tac 273

<210> 1401
 <211> 270
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555092H1

<400> 1401
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 ttatgttttg aattgcattg ttactttcaa tggcgacagg caaaggaagg aggtggagga 120
 ggatgttttg tgggtggtgcg actggtgagg aggaggtcgt gtgactgctg tgaagaaggt 180
 gaagtcattg gagaagaagt tgccatggcg ggagtggttt gtacaaagag aaaggtgtta 240
 gggtcggaga aggatagttt ggtattttca 270

<210> 1402
 <211> 272
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700555093H1

 <400> 1402

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 aagcaaatca gcaaatggga tccttctcta ttcattcaat ttgatatggt tttcccagat 120
 ggtaaatacc ctgctggagg gaagtctgac atagaaggca tcttccctcc accttactat 180
 gagtggtttc aattcgaaaa ggacttcaca gtgtacttta acttgggaaga atgcatctca 240
 tacttatgcg attatattac agccaatggt cc 272

<210> 1403
 <211> 273
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700555095H1

 <400> 1403

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 acattgctaa taccgagttg cctccaactc accctatcag gctgggtctt gctctgaact 120
 tctccgtgtt ttactatgag attcttaact ctctgatcg ggcttgcagc cttgcaaaac 180
 aggcttttga tgaggctatt gctgaattgg atacattggg agaggagtca tacaaggata 240
 gcactttgat catgcaactg ctacgtgata acc 273

<210> 1404
 <211> 275
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700555096H1

 <400> 1404

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 ttctccgtgt ttactatga gattcttaac tctctgatc gggcttgcag ctttgcaaaa 180

caggcttttg atgaggctat tgctgaattg gatacattgg gagaggagtc atacaaggat 240
agcactttga tcatgcaact gctacgtgat aacct 275

<210> 1405
<211> 189
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555101H1

<400> 1405

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ctattcggtt accatatctt ataaacatat tgtagtggtt tctgttttga cattatggat 120
ccccgagtag tgagtttttt cccccctaag ttggccaaac tttgttgaga ctgatcttta 180
aaaaatttc 189

<210> 1406
<211> 290
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555102H1

<400> 1406

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tgtaggctct gcagttaata gacttaatga tgtgggttgct atgattgctg aggtcagaag 120
cattgctaatt cattgcaga caccatttca gatatccact gcacatgaag tggaaactca 180
aagacagtag gttatgttgc aaagaaacca gatgaaggga ggtgtaagggt agtgaattaa 240
acatgccaaag gaatattaag gaactgttcc aattattggg gtncnngggg 290

<210> 1407
<211> 95
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555103H1

<400> 1407

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aagcaggntg ggagtgaaca aaggggcat tttgg

95

<210> 1408
 <211> 187
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555104H1
 <400> 1408

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 taaaggggac tatggtggtt atgcagaaga atgtgttga tatcaacagc atcaccagt 120
 ttgacgggat cgtcggcacc ggcttagact tcttaggcat gcatcgatac agttactttt 180
 ttagccc 187

<210> 1409
 <211> 100
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555105H1
 <400> 1409

cggagactga gacgtttgct tttcaggcag agatcaacca gtcctcagt ctaatncatc 60
 aacaccttct acagcaacaa ngagcanacc atcttacgtg 100

<210> 1410
 <211> 280
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555106H1
 <400> 1410

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 catttttcaa gaagtagcaa agtccttct acaatatttg acttggtgct ttccttttgg 180
 atcttacaat gggaaacagt gaggaagaga aatctacca gactgaaaaa ccttcttcac 240
 ctgtaacagt ggatcaagcc aatcagacca accagaccat 280

<210> 1411
 <211> 260
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700555107H1

 <400> 1411

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 tccacagaat ggagagtggg tgagaacgac acgaggagtg gaaggaggct tattatcact 120
 ggccgagacg aaaccacggg atcatacggg aactatttta gaattgtgga aacagaaaat 180
 gttggtatct ataacattca gtggtgccct accgaatgtg cccacttgt agattctttg 240
 tggcactggt ggtattctga 260

<210> 1412
 <211> 294
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700555109H1

 <400> 1412

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 atccgggctg aagacattgt caggtgggga gtttggctgg ggcggcacat ctgttaaaag 180
 ataacgcagg tgtcctaaga tgagctcaac gagaacagaa atctcgtgtg gaacaaaagg 240
 gtaaagctcg tttgattctg atttccagta cgaatacgaa cctgaaagc gtgg 294

<210> 1413
 <211> 290
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700555110H1

 <400> 1413

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ngggggccat aagtggggtg gggcttgtga aggctttgca gaagagctac tacaacaggt 180
 acaaaggtgg cgtgaacatg ctgctgatg gttacagcaa aggaaccggt ttgggcgctg 240
 agattattgg cacctttatt cttgtctaca ccgtcttctc tgctaccgat 290

<210> 1414
 <211> 280
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700555111H1

<400> 1414

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 aacttgttcc tttacagtag tttatctttg cagagtctta ggtgtttggt ttaccagtta 120
 tattttgaag tgtccgccga tttcatgtag ccgtagcctt caaaactggg ttcttgatcg 180
 gcggtaacat tttcgttgct gtttggtttt gatgagtact gttttttggt ttgatggtaa 240
 aagtctgaga tttcaaata caagcagcca taggggttta 280

<210> 1415
 <211> 99
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700555112H1

<400> 1415

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 atttattctt ttatgatgaa tattgtaata tatttatga 99

<210> 1416
 <211> 210
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700555113H1

<400> 1416

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 tattcgggta ccatactta taaacatatt gtagtgtttt ctgttttgac attatggatc 120

cccgagtagt gagttttttc ccccttaag ttggccaaac ttttggtgag actgatcttt 180
taaaaaattc caaattgttt gattttatat 210

<210> 1417
<211> 289
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555114H1

<400> 1417

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tgctaaggaa cttgaagctg ctggaggact tgtggatctc tcgcttggtc ttgacaattt 120
gcaaggaaga tggaaactca tttatagcag cgcattttcg tctcgaaccc ttggtggaag 180
ccgtcctggt cctcccatag gaagactcct tcctattact cttggacagg tttttcaacg 240
aatgacatct tgagcaaaga tttgataaca tagtggagct tcaataggt 289

<210> 1418
<211> 291
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555115H1

<400> 1418

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cttcttccac tgccaatgca ctcaaactct cttctgtctc cagacctcat ctcttgctc 120
ctttttcttt ctccagatgc ttatcttccg tottggtgag acttaagtac gctgattcac 180
atgaatgggt caagcacgaa ggctcagtcg ccaccattgg tatcactgac catgcccagg 240
accatcttgg agaggttgtg tatgtggagc tgccagaacc aggtggcaca g 291

<210> 1419
<211> 291
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555116H1

<400> 1419

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 ctccgtctcc actgtcggag ctgtcaacag agctcttttg aacctgaatg ggtctggacc 120
 tggggtttca gctcccagtt catcctcctt tgggagcagc ttgaagaagg ttattggctc 180
 aagggtcccc aacacaaaga tttcctctgg aagcttcaag attgttgctg tagaagagaa 240
 gaagagattg aagagaccca gcagaccgac aaggacagat ggaaggctcg c 291

<210> 1420
 <211> 289
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555117H1
 <400> 1420

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 ccccatgttc atcccgagc cattgatctt gttgataaaa tgctgacagt tgatcccacc 120
 aaaagaatta cagttgaaga agcactagcc catccatacc ttgaaaaact gcatgatgta 180
 gctgatgaac caatctgcat ggaggcattc ctcatggat ttggagcaac aagaattggg 240
 nggaggagca attaaaggng nggnccacca gggaggatta ggcanggat 289

<210> 1421
 <211> 283
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555119H1
 <400> 1421

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 ttacattaga ttggtggtaa tggcagcgtc actacaagca gcagctactt tcatgcaacc 120
 caccaagttg agcaggagca acactttgca gcaaaagtct actcagtcca tttccaaggg 180
 ctttggtttg gaaccctgtt ggagctaaaa aggtcacatg ctccttcagg ctgatcntaa 240
 ggattggctc acaagtgtgt tgatgctacc aaattgcagg atc 283

<210> 1422
 <211> 285

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555120H1

<400> 1422

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 tggatgctcg agcagctgca gttgttatgc gtgcagtga gaatgttggt gccactggca 120
 ggacgacggg ttgcactata caccaaccaa gcatcgacat atttgagact tttgatgagt 180
 tgattctaata gaaatctgga ggacggatta tttatagtgg aatgctaggc catcattcaa 240
 gtagactgat tgaatatttt cagaatatac ctgggggtgcc aaaga 285

<210> 1423

<211> 95

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555121H1

<400> 1423

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 atgtgaatta tcttgtgtat ccgaatccaa cttaa 95

<210> 1424

<211> 290

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555123H1

<400> 1424

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 gcagatgagc ttatcaagaa tgccaagtac atagccacac ctgggaaggg catcttggca 120
 gcagatgaga gacttggcac cattgggaag cgcctatcga gcataacgtt gagaacattg 180
 aggccaaccg ccaagctctt cgcgagcttc tctcacgct ccagatgccc tccaatacct 240
 ctctgggtgtc atcctctttg aggaaactct ttaccagaaa acctccgatg 290

<210> 1425

<211> 292

<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555124H1

<400> 1425

gggcagacta gtatccgatc ctctgtcctc tcgaagcttt catcgttcaa catattctca 60
ccatctcagt catgggcctg ctatcttggt ttaggtctac cgtcctgaga aaatgttcca 120
aaggaagctc tggcatgtca agattcctgt atacgaacaa ttttcaacga aacttgattt 180
cgtctggtgg caatgaatcg tattatgggt attttaacag gagatcatac acttcacttt 240
atatgggaac tggaactgtg ggtgggatta caagtgctag aatcagggtg cc 292

<210> 1426
<211> 282
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555125H1

<400> 1426

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atcgtttagca tcaaggcccg ccagatcttc gacagtcgtg gcaatccaac tgtcgaggtg 120
gatttgactt gctccgatgg tacttttgcc agagctgctg ttccaagtgg tgcattccact 180
gggatttatg aggcccttga attgagagat ggaggatctg actaccttgg aaagggtgat 240
caaaggctgt tgacaatgtg aacaccgtca ttggccctgc tt 282

<210> 1427
<211> 224
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555126H1

<400> 1427

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nnnnnnnnnn nnnnnnnngg ggatggacga gttgctggcg gcgttgggtg acaaggttcg 120
tgcttccgac atggccgacg tggcacagaa gctggagcag ttggagatgg tcatgtgttg 180
tgcccaggaa gagggatttc ccacctcgcc tccgacaccg tcca 224

<210> 1428
 <211> 288
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700555127H1

 <400> 1428

 ggcaaatgca gttgctcagc aagctttaat tgctcactgg caaagtattg tgaaaagctt 60
 aaacaattat ctaaagataa tgaaagccaa ctatgcaccc cttttcttgg tccgaaaagt 120
 gttcactcaa atattctcat tcatcaatgt tcaattattc aatagtcttc tggtgcgtcg 180
 ggagtgttgt tcgttttagca atggagagta tgtaaaaaca ggtctggctg aattagagca 240
 tgggtgcatcg aggcaacgga ggagtatact ggctctgctt gggaggaa 288

<210> 1429
 <211> 285
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700555128H1

 <400> 1429

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 accactgttt caaccctcaa attgtgtctc ttcgctttct ggttttgatt aggttttggt 120
 ccatttgaaa caatattcat cgatccatcg ccaaacatgc ctctagtcac ttgcttcttg 180
 aggaacctat taggatggtc tccatcctga accatccaag cctagttttt tctctgcaat 240
 gacaaagatg ttggtaccct ggggcctaaa tctagatccg tcgaa 285

<210> 1430
 <211> 288
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700555129H1

 <400> 1430

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 ctgaatgggg ctctgaaatg tatagggcac ccattcacga ctgcaggatg atagggaaaa 120

tgtgatacac agctcagccg ttgaaatcca gctccgggta tctgcctcaa gacattcctt 180
gatcttgccg gcagccgcct tacagggaag gacttcagcg aggccttgat gcggctgttt 240
tcctcttact cttttctcaa gctcattgat ccaggttggg cattggct 288

<210> 1431
<211> 291
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700555130H1
<400> 1431

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gacgcagctg attgtggaaa tgtcagtggc aagattacct ggataagcac atgctttccc 120
gaaaactcga agatgccgtc aatgccgccg ttagggccaa aacctccgat cccgttctct 180
tcattctcga tcacatgcga aaagcagtgc aatcggatga aacaaaaatc aaggcgagggc 240
agatcctaga tagcagagga ttccaaccgt cgaagtcgac ttgcacataa a 291

<210> 1432
<211> 293
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700555132H1
<400> 1432

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cctctctcag gaaggccaca ttacgccctt ccgtcttcgc aacccttaac actccttctt 120
ctccttcctc ttcatcttcc ttccccctc tcattcaaga caggcctgtt tttgctgccc 180
ctgcccccat catcacccca actgtgagag aggatatggc aaaggaatac gagaaagcta 240
ttgagaactt cagaaattgt tgaggggagaa gagtgaatca aagcgacagt gct 293

<210> 1433
<211> 282
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700555135H1

<400> 1433
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ggaaaggggtg ccattaattt ttccgaagtg gagcatatca tcctcaaata taaccgttca 120
gtggaagaag ttttcaagct gttcgaccta atccacattc tcaccactga tcacaacacg 180
ttgcaagaat taccagagaa gttattgagg atttggcatc aagaggaagg tggctatcnt 240
ggagtggagg actactccaa ggagaatgga tctgtgggat ga 282

<210> 1434
<211> 85
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700555136H1

<400> 1434
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aatccaacac tatactgcac acacc 85

<210> 1435
<211> 190
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700555137H1

<400> 1435
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tgggcaatcc agatgggtgt gtcctcgcc caatcattgg aggctctagc aactatcctt 120
accctcgag ggtagaacc ggtagagana agaccaggaa agatccaac agtgagaaac 180
caggcgagat 190

<210> 1436
<211> 188
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700555138H1

<400> 1436

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 ctgccaaacc cccatttccg cagttcttaa atttgagtc gatgtntcgn cattgctggt 180
 taccgaag 188

<210> 1437
 <211> 289
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555139H1
 <400> 1437

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 acaccagatg atctataagg agtgggttcaa ttacgtgat tcagatagcg atggccgcat 180
 tacggggagt gatgccacca agtttttcgc catgtccaat ttgtcccgcg aagatcttat 240
 caggtgtggg ctattgcaga ttcaaagcga caaggatatc ttggtttca 289

<210> 1438
 <211> 292
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555141H1
 <400> 1438

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 taatccatcc attaccacca gcaatttctt caccagaaac atcaccagaa cctcatattg 120
 aagatacatg gatgcaggag ttgaatgcta acagaccgcc gacgccaaca agaggccgtc 180
 cccagtnac aaacgaccga gcctgatgcc atttacggga gtctccgagc ctgtgaactt 240
 aatccctgca gaaagttttg gttctcatca ctccatcagc aggcttgat aa 292

<210> 1439
 <211> 291
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700555142H1

<400> 1439

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tgtgaaaatg gcagtgactc ttacatcaac actctttctg gctttgctat ttgctgcttc 120
agcttttget gctcttcagc ctagagtacc tgaagcttac ctccaaaatg ggaactttga 180
ggagcagcca aaccctaaat acctgaagaa aacaaagctc tttggtaaata acgctttgccc 240
taaattgggag atcaatgggc tggttgagta tgtctctggg ggtccccaac c 291

<210> 1440

<211> 289

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555143H1

<400> 1440

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ttcagctccc attctacgct ctcccaacnt ccagtctctg anccgaagag cgaaccataa 120
tggaagagta aattaccgga aaccgaataa ccgtttctcc gtgaaagcct ccgccaaaga 180
gattgccttt gaccagcatt cccgctctgc tatgcaggcc ggcattgaca agctcgccga 240
gctgttgggc tcaactcttg gccagaggg aggaatgttg tgttgatg 289

<210> 1441

<211> 288

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555144H1

<400> 1441

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tcgtcaagac cctcaccggc aagaccatca cccttgaggt ggaaagctct gacaccatcg 120
acaacgtcaa ggccaagatc caggacaagg aaggaatccc cccggaccag caacgtctca 180
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agagtactct tcacctcgtc ctccgtctcc gtgggtggcat gcagatct 288

<210> 1442
 <211> 290
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700555145H1

 <400> 1442

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 gtaccccaga taccctaaat tcgattcata cacataacac aacacaacct cgttcctttg 120
 ctgaccaact cgggttggtgt ttttttcttt cactttcacc tatgggttatg gcttctttga 180
 ttcagttttc occaactccc ctctcctctg ttcccatcac taccggtttc annggaccca 240
 naagtctcgc cttogttgct ccttagatgc taatgtttcc gacatgagcg 290

<210> 1443
 <211> 288
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700555146H1

 <400> 1443

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 ttcgcagggc atatccaaga agagtaagtg caagcmttga cattgacacc ccacaaganc 120
 ccaattncan tcaaccctaa tggctcgaat gctaaatttn nnnnnnnnnn nnnnnnnnttt 180
 cganagggaa aggagagagg gagagtgata ggtgggtgtg gggttttcat ggaagcaaga 240
 agaggcgggg aagagaaaagt tcaatggggt tgctgcaatt gtgggtac 288

<210> 1444
 <211> 291
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700555147H1

 <400> 1444

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 aaccccaaac tctcattctt caacggaaag cccgtcacat attcttcccg cgtcgcgcgc 120

accaccaaatt tatectcatc caaacaaga atccatcgtg tcacgggaaa tgacgcgccg 180
ctacatgacc gacatgataa cctacgccga caccgacgtc gtaatcgtcg gagccgggttc 240
ggccggggctc tectgcggt acgagctcag caagaacccc gccgtgagcg t 291

<210> 1445
<211> 289
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555148H1

<400> 1445

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acgcgcgacgt gactccgagc accgccgaga acttccgcgc gctctgcacc ggcgagaagg 180
gcgcggggcg gagggcaagc cctccacta caaaggctcg tcttccacc gcgtgatccc 240
gaacttcatg tgccaggcg cgattcaccg ccggaaacgg caccggagg 289

<210> 1446
<211> 175
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555149H1

<400> 1446

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tgtttttgca agaggggtatg gcgaaggacg ttgaggttgc tgagcgtggc tcttctctg 120
ggaaggacta ccaggaccct ccaccagcac cactcattga tgctgaggag tcaca 175

<210> 1447
<211> 94
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555150H1

<400> 1447

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ggtggaagca gcattttcct tgaatgccca ttcc

94

<210> 1448

<211> 283

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555151H1

<400> 1448

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tagattcagt gattcctctg ttcagagtga tatcaaattg tggcctttca aggtcattcc 180
ctgggtgctgc tgacaagcca atgatcgtgg ttaactacaa ggggtgaagag aagcatttgc 240
cgcagaagaa tctcttccat ggtgctcatc agatgcgtga gat 283

<210> 1449

<211> 281

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555152H1

<400> 1449

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cgtgggagatt cattttgaat tatagattga aaatcccttg catatactga ataacaatca 120
agcatataaa agggattttc tgggctgatg tagcggattc tgttcaatcc catgccttga 180
agtggcataa tatanaaccc tcttaggctt gcctatggct tgttgtataa cagctgatga 240
acggggtagt actgggcagg ttggtcgaag caatgggtcaa g 281

<210> 1450

<211> 99

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555153H1

<400> 1450

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99

<210> 1451

<211> 288

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555154H1

<400> 1451

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cctgaatggg tctggacctg gggtttcagc tcccagttca tccttctttg ggagcagctt 180
gaagaagggtt attggctcaa gggccccaa cacaaagatt tcctctggaa gcttcaagat 240
tgttgctgta gaagagaaga aagagattga agagaccag cagaccga 288

<210> 1452

<211> 289

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555155H1

<400> 1452

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cgccgtaacc gttagatcga gcgactacga ctacgattgt gtgtacactg catacgttag 120
aaccggttcg gtgttgaagg gcggaacgga ctctaagatc gggctgaagc tgtacgacaa 180
gtacggctac tacatctaca ttaaaaacct ccgaagcatg gggcggcttg atgggcaagg 240
ctacgactac ttcgagcgcg gcaacctcga catcttcagc ggaagggga 289

<210> 1453

<211> 288

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555156H1

<400> 1453

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 cttctcaagg aaatcgccct cccaacggc cttcttcccc tcaaggacat ggaggagtgc 180
 ggctacgaca gacaaaccgg cttcgtctgg ctcaaacaaa agaagagtta caccacaat 240
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<210> 1454
 <211> 98
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555157H1
 <400> 1454

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 agagagagag tagcaaagtt tgtngttaag tntcattc 98

<210> 1455
 <211> 290
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555158H1
 <400> 1455

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 ccacacgcct caccacgtac ccacaagctg ctctggttnn nnnnnnnnnn nnnnnnnnnn 180
 nttcttcncc cagagacagc tctagctcca ttcagcttct gaccttgtcc acgtgccaat 240
 gacctgcaag ccgaggccag agccatggca cgtgccgcca atgccaccgt 290

<210> 1456
 <211> 187
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555159H1
 <400> 1456

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cgtgtntttct gtnttcgttt gtngtntttt tttgctcnca tttgcgangg tgagaaccct 120
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 ggatcag 187

<210> 1457
 <211> 96
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555161H1
 <400> 1457

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 cgtnnccgga nangcactga gtctgaaanc agcggg 96

<210> 1458
 <211> 241
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555162H1
 <400> 1458

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 aaaaagaact gaattaatac acagtaaata ttggaaataa aattggctga atgaaaccaa 120
 aagtaatgta gcaactggtat tcagttaaga ggttcacgca tcactctgcat tccggctagg 180
 gggaggagta ccggcaagcc aacccacac gccacctgaa tctctgttat ctgtttatct 240
 g 241

<210> 1459
 <211> 289
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555163H1
 <400> 1459

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 gggtttttnc aaagcaggag caatgtcttc ctcttatctt cctgccacaa ctgagtcnct 120

tgctctggca aatgaggcca aagacccatc tgaggccatc tccatcttta tcgggtactt 180
 gatgatcctt cttcttcacc agatgctttg cgtatgaaag agcaagcaat cacaaacctn 240
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<210> 1460
 <211> 295
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555164H1
 <400> 1460

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 ccctcaagtt ctccagaaca atcagagcag cagccgccga cgagaccaca gaggcaccag 180
 caaaagtaga ggctgcaccg gtctgggttc aaccaagcc tctctcttaa cccacccct 240
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<210> 1461
 <211> 277
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555165H1
 <400> 1461

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 atttatgaac acaaagttga taatttggca tcaatttccc tcagaatatt aaaccagttt 180
 cagtttttga ttggttactg cagccctgca agtccaaatc ctacnttttn tggggtcntg 240
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<210> 1462
 <211> 97
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555166H1

[illegible]

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<400> 1463

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<212>	nucleic acid
<213>	Glycine max

<400> 1464

<210>	1465
<211>	283
<212>	nucleic acid
<213>	Glycine max

<400> 1465

530

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 ctgggtgtgga accctggatt cgattacaat gagaagatta taggtttcat taaggataca 240
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<210> 1466
 <211> 289
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555171H1
 <400> 1466

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 cgcacgaana tgacaggggt tctcaacct cgccgcgatc annnnnnnnn nnnnnnnnn 180
 nnnnnnnngc acattccaac agcagtggta gnnatgtatt taatttgctt gcaaggagga 240
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<210> 1467
 <211> 288
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555172H1
 <400> 1467

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 tttgctgtat atggagaaga gatagataag aagagtacat ggagtgcgct ctttgatgtg 180
 gaggatccaa gatccaaagt gccgcagtat aaagggaagt ttttgatgt atatcaagcc 240
 ttgaatttgc aagatatgat attcaatact gtgattggcg agctcgcc 288

<210> 1468
 <211> 286
 <212> nucleic acid
 <213> Glycine max

<210> 1471
 <211> 189
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700555179H1

 <400> 1471

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 cttgatttaa ctcctaaaaa gtcacaaaag gctgggttctt cagttgatga atttttgcgg 120
 tccttgtgtc tcgaaaagta ttcataact tttcaggctg aagaagttga tatgacagct 180
 ctcaatcat 189

<210> 1472
 <211> 291
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700555180H1

 <400> 1472

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 caccatctct ctaatttcat aggcttcat caccacccat cttcaggacc cctcttgtcc 180
 atctcttctt ccaccaaagg ccactttca aaaactgcaa cttctgtaca actcgctgat 240
 actgctgtca aggaaaagtc tgctgccccca gtgactaagg aagagcttgg a 291

<210> 1473
 <211> 183
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700555181H1

 <400> 1473

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 cgtgaagtac acagagactg agattcagtc cgtgtacaac tatgaaacca ctgancntgt 180

183

âcatttcatt	acttctacca	agctactaca	tttttaactt	cctctttcta	catttcattc	60
aaaacaatca	tggcttctct	tcattccatt	acattttcaa	caaaaactgt	cctttatgta	120
tttgatttgg	cctcttccat	cgcagcctct	gctggcaact	tctaccagga	ttttggacgt	180
aacttgggga	gatggtcgtg	ccaagatact	caacaacggc	gatcttctca	actctttccc	240
ttgacaaggc	ctctggctcg	gggtttcaag	tccaaaaacg	agt		283

tgctgtgatt gctgactggt ttcaaaataa tcgtgatctt atgcccataa agtcgcagtt	60
tgatagtcta attagagaag gctcctcaga atggaggaac ctatgtgaaa atgatgccta	120
tagagagcgg ttccctgaca gcatttgacc tggaaacagt cattcaagca aaaatacgtc	180
cgcttactgt ggctcctggg aagtccttca ttgggttttt tcatcctgan ggatggatga	240
aggcagattt gactttcgta tggtgccagt ccttttga	278

cagaggggaag ggtagggaa caattggagt gcacgaaagc gatgccaaaa aaaccaaaaca 60

atcattaaca acagccctaa cccccccgac gtctttcaaa actgattcgg agcaattaat 120
 gtaaaatcta tggacatcaa cgaggaatct tcattctctc tccgtttttg tttgcatcat 180
 taatagaccc aatggaccc gaacccgaca gcctcgctgg actccgaccc gganccgctt 240
 cgcgtgaaga ggaagaccct cgaggccgtg ctcttgcaat gtc 283

<210> 1477
 <211> 286
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555185H1
 <400> 1477

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 tatattcttc actaccaagg gtcncagcaa gtanagtagg cgactaattt gttcagttgn 180
 ccacagagga tttaccaaag gaagttgaaa aatctaacat ggagacacca gggaaagatt 240
 cttaaaggat tacaaaatgc ctgattacta ctttgacact gtggat 286

<210> 1478
 <211> 285
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555186H1
 <400> 1478

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 tcgccaaatt cagaaccggt gtcnnnnnnn nnnnnnnnnn nnnnnnnnnn gtaccagcag 120
 gtgccggagc aagatgctaa taacgacttg gaccgcgtag agacaacacg tttcgcaggt 180
 acacgtccaa cgttaccaag gggagtggca aaggaacagc cattgtctgg ttcaggacga 240
 tctcagagtt ttggataacg aggctctcta taaggcatgg ctttc 285

<210> 1479
 <211> 288
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700555187H1

<400> 1479

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 tttggaacaa caactcctct ttaaccgttg gagctagagg tccaattctg ctggaggatt 180
 atcatcttgt ggagaagctt gcaaattttg ataggggaacg tatcccagaa cgtgttggtcc 240
 atgccagggg cgctagtgc aagggtttct ttgaggtcac ccatgaca 288

<210> 1480

<211> 286

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555188H1

<400> 1480

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 ctcttttgett tcttggctct ttcagaagat gttgaacaag ttgtggacat aagtggcaac 120
 cccattttcc caggtggcac atattacatt atgcatcaa cttggggcgc tgccgggtggt 180
 ggattgaaac taggcccggac aggaaactca aactgcccag ttactgtttt gcaagattac 240
 tcagaaatct tccgtggcac accagtcaaa ttcagcatac ctggga 286

<210> 1481

<211> 93

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555189H1

<400> 1481

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<210> 1482

<211> 282

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555191H1

<400> 1482

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caattcatct atggctgcct cttcttatgc tatgcaatca atcctggcaa accctttgat 120
cgcatttcc agcgggtcta gggatgaacca atttggcgtt cctgctttgc acatgagaag 180
gaatgttggc ctgagagtta ggtccatggc taaggaagat caaccaagtg agcngcaacc 240
ccagttacac cgccaccatc agtagaacc c aagccacagc ca 282

<210> 1483

<211> 285

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555192H1

<400> 1483

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gacgcggcgg tgaaagctac cggatcatgc gatcacaatg ggagggatgc gagttcaant 120
caacaagcct cacaagtccc gcttctcttc caaatcttct cgcaatcttc ataaaacctc 180
tgtcaaggac agactcgcaa tcgcaaaatc agagcgcaat gtcggcaaag gagctcttgc 240
agctcgaatt cagagaaata aatgatacga gatcaaaaaa gagct 285

<210> 1484

<211> 178

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555193H1

<400> 1484

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caaacgcaca agccctccg aagaccatgg agaaggttga gaatgatttg ccatgggtgc 120
cgtcgtcgtc gatttcgcac gcccagagga cttttataaa tcagttacct gactggag 178

<210> 1485

<211> 287

<212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700555195H1

 <400> 1485

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 tctnaantaa ntgccagccc tcattgggtc agaagagtgt gcaagctggc acctttgcat 120
 gtgaattcta tatcagcagg agaggaggaa tgaaagattc ggataaatta acgtgggatc 180
 agggctgatg tctgagtccc gcacaggcac gttcctcggc ctcacagaag cttatgggtgt 240
 cgctcatgtt cttgggttcc ctcacctaca tggtttacac tctaaag 287

<210> 1486
 <211> 294
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700555201H1

 <400> 1486

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 tttgttgatc tgcttctac tagctctccc attgcaacaa ctacttgga tgtagactt 120
 ccattgacaa atgaagctat cgtgattcct actcaggta attacattgg gaaagcagcc 180
 aacatttatg atactgggta tcggcttaat gggagtgc atgttatttc caaatacatt 240
 agcaatacag gttgtgggat cgtgtacgtg ttagtggtga gtttatggag gttt 294

<210> 1487
 <211> 290
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700555202H1

 <400> 1487

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 aaatgaaaat gggctaactc ttggtacacg acaaccagcc actcctggat ttcagaatgt 180
 cagcatttca aatcctaatt atagaggatt ggaggactac ttccagagg atgagattcg 240

aactagaagt cagagatgct agaaangaag atatcagcat ctgctccgta 290

<210> 1488
<211> 291
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555203H1

<400> 1488

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ttattcgaag ttgatacatg cnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnntgccgag 120
ttctagaatc tctaggccgc tctctgaaat actgaaagag ctgaacaaga aagtaccgga 180
ctccctcgtc aaaacccgcc tccagaaaga tncaagatgc ctcccccatc cagattcatt 240
ccctggncng ttgtcaatcg cntttgaatt acagncctgc gtggtctggt g 291

<210> 1489
<211> 260
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555204H1

<400> 1489

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ccgccgggct cctcttgta gagagaagtc aggcattcgc ctctttggca tcgaatttgc 120
cggcggannn nnnnnnnnnn nnnnnnnnnn taacaatttt gttgttgtct cggccgagga 180
ttctgagtcg gccgaaataa caacagcagc caacaccaac accaacaatca atancaacaa 240
atcaacattc gacctcgatc 260

<210> 1490
<211> 289
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555205H1

<400> 1490

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gactcaaagt gtcttcaatt gggtcacctt ttctgcagtt aggttcttct gcaagtgcag 120
catgctctgt ttccaaactt ggttttcac caccacgctt gcaactcaac aaaaattcac 180
accaataag gctttttgtt cgggctgcta gaattgagtc caaagggtgtt accttgggtt 240
tcaggacccc acaattcagc ttccggagcc ccttccggga cgacctgga 289

<210> 1491
<211> 289
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700555206H1
<400> 1491

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cgaagttaaa cccctctccg acatagatga ccaacagggc ttgcgtttcc aaattccatt 180
cannotattc tatggtaatg aaccatcaat ggcagggaaa gaccctgcta aggtcattag 240
agaggcactt gcgcaaactc ttgtttttta ctacctttgc gggtaggat 289

<210> 1492
<211> 287
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700555207H1
<400> 1492

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ttgtgggatt tcggctttgc cacttcttga ttccaataat tttggtttct ttttttcccc 180
taatttgatt tccccagtta gggtttttaa ctctattcga tcggcgattc gaatactcgg 240
aggctcgaat cgtgttgggg gttttccgtt ttataaaaaa gtttccg 287

<210> 1493
<211> 288
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555208H1

<400> 1493

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ctgatggccc ctatgcatgt taatcatgca cgtgaagtcc cagagtatga aatcaatcct 180
aaagagcttg attttaccaa cagtgtggag ataacaaagg ggactttctg tattgcactg 240
tggcgtggaa cagaggttgc agtaaaaaag ctgggaggat gtantagt 288

<210> 1494

<211> 283

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555209H1

<400> 1494

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ccgcagcaac agcttnnnnn nnnnnnnnnn nnnnnnnnnn nncagcgga gaatgacgcg 180
atgaaagtgg actctcgcg cggtccgac gccggcaccg aaaaggaatg tcagctacct 240
gtccgcaactg gtatgatgca tcatggtcat aatctcaacc aca 283

<210> 1495

<211> 279

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555211H1

<400> 1495

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agttggcaag aagaagtttg agactctttc ctacctgcca gaccttgatg atgcacaatt 180
ggcaaaggaa gtagaatacc ttcttaggaa gggatggatt cctgcttgga ttcagattgg 240
agcaggtttc gtgtaccgtg agcaccagtc accaggata 279

<210> 1496
 <211> 287
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700555212H1

 <400> 1496

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 tcttctcctt cctcttcatc ttctttcccc tctctcatc aagacaggcc tgtttttgct 180
 gccctgccc ccatcatcac cccaactgtg agagaggata tggcaaagga atacgagaaa 240
 gctattgaag aacttcagaa attgttgagg ggaagagtga attcaaa 287

<210> 1497
 <211> 284
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700555213H1

 <400> 1497

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 aaaatgcgtg agatccttca catccagggt ggccaatgcg gcaaccagat cggcgccaag 120
 ttctgggagg tggtttgccg ggagcacggg atcgacccta ccggaaggta cggtggggac 180
 tcggagttgc agctcgagag gatcaatgtc tactacaacg aggccagttg cggtcggttc 240
 gtgccgcgcg cggttctcat ggacctcgac gggcaccatg gaca 284

<210> 1498
 <211> 282
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700555214H1

 <400> 1498

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atggacaggg ctggattagt tggagcagat ggtccacac attgtgggtc ttttgatgtc 180
acatttatgg catgcctgcc taacatgggtg gtgatggctc ctctgatgaa gccgaccttt 240
ccacaggttg ccaccgcagc agccatatga tcgacctagt tg 282

<210> 1499
<211> 191
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555215H1

<400> 1499

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ctttccctct ttcttcttct cgcaccaccc tctctnacnn gatccaactc cctcaaacc 120
taacgctcca aaacaaaaaa aaaccctcg ctcttaaatt tcattcttng acatcatca 180
aancacatct a 191

<210> 1500
<211> 284
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555216H1

<400> 1500

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ctatcgtgta tcaataaaaa gttcaataaa ctgatcaata gtgggtatct atatgggttg 180
aggaaacaat tgggggctgt ggagcatttg gtgtatatgg tttgtgatcc aagaggatgg 240
gtggccttga cccaagata aacagggtga tcatacccaa gata 284

<210> 1501
<211> 285
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555217H1

<400> 1501

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gagaaatggc taaagatggt gaggttcaag agcaaggagg agagtactct gccaaagact 120
accatgaccc tcctccagca cctttgttcg acccagagga gctcacacag tggtccttct 180
atagagccct catcgctgag ttcatagcaa ccctctgctc cttatgtcat gtgctcacca 240
tatggctaca aaaggcagac tgatacaagg agtggcacgg atgtg 285

<210> 1502
<211> 260
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700555219H1
<400> 1502

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnngccgccc tcagatctga tccctcagat 120
cacgctaca aagaaggcga ccccgctcct ctctgcgcca acaaagttgg ccccttcac 180
aaccctagcg antnctaccg ttacttcgac cttccctttt gtgaaccagg tgatttgaaa 240
gagaaaggag gcgctcgggg 260

<210> 1503
<211> 283
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700555220H1
<400> 1503

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tcaaaacatt cccgatgcgg aggagggaaac cttggagatt ggaatggaat acagaactgt 120
gtctggagtt gctgggccat tggtcattct tgataaagtt aagggaacct agtttcaaga 180
gattgttaat attcgcttgg gagatggaac tactcggcgt ggacaagtgc tagaagttga 240
tggtgaaaag gctgttggtc agtcttgagt acatctggga tga 283

<210> 1504
<211> 287

<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555221H1

<400> 1504

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tgttaccact gtcaaccgtg ccggtgccgg catggttgct ccattcactg gcctcaagtc 120
catggctggc ttccccacca ggaagaccaa caatgacatt acctccattg ctagcaacgg 180
tggaagagtg caatgcatgc aggtgtggcc accagttggc aagaagaagt ttgagactct 240
ttcctacctg ccagaccttg atgatgcaca ttgcaaagga agtagat 287

<210> 1505
<211> 285
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555222H1

<400> 1505

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ccaatgggtg gccttgccag aggaatgtcc attagaggtc cacctgcagt ttcaagttca 120
actggtctta ataatggtta taataatttg tcagagcgca cttcatacag ctctagggag 180
gacctgcat caagatatac tccagataga tttgctgggt cgactgctta cgatcaatct 240
attgttncaa gatcgtaata tgaataggta agggactgag aaatg 285

<210> 1506
<211> 247
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555223H1

<400> 1506

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cgacgagttc ggaaggccgt tcataatcct gaaggagcag gagcagaaga gcagactccg 120
aggattggac gctcagaaag ccaacatctc cgccggcaaa gccgtggctc gcacccctccg 180
aacctccctc ggccccaaag gcatggacaa gatgctccag agccccgacg gcggtcacca 240

tcacgaa

247

<210> 1507
<211> 190
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555224H1

<400> 1507

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accctcccc actcagacca cgccttgcc cggtgcccc cctccatgg tcggagacat 120
cttcggcaag agctggggaa cccctcaacc ttcttctgct tccaaaaaca tcgggatgct 180
caataagaac 190

<210> 1508
<211> 282
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555226H1

<400> 1508

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agccaaacca gcccttcagg caaatgggaa aggcttctct gaattctctg gcctccgaag 120
ctcatcaggc ttcttccct ttcttagaaa atcttcagag gatttccatt ctgtcattgc 180
cttcagacc tatgcagttg gaagcagtg aggatacaag aagggtgtga cagaagcaaa 240
actgaaggtt gccataaacg ggtttgaga tggaaggaat tc 282

<210> 1509
<211> 284
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555227H1

<400> 1509

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accttctttt ctttctctt cttcctcctt caagttcaaa cccacatcca tcaaagtctc 180
ccaccaact ccacaccnaa gtcctgcnc cccactc ccaagatcgc gtcttcaatt 240
cgccgccggc cccgccacc tcccggaaag tctcctccg cgcc 284

<210> 1510
<211> 284
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555228H1

<400> 1510

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ttgagcagtt catntgttga tcttgaaga gagtggaggc tctttgttag caaaagttgc 120
aagaggcagc gcaaggatag gagagtgacc attgtcaatg aacttgagg acaatatgag 180
gacacttttg aagatgttaa agcgcaaag ctcaactatt tcacatacaa ggctgtgagg 240
actgttctgc atcagttgta tgagatgatc cacctaaata cacg 284

<210> 1511
<211> 283
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555229H1

<400> 1511

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gagatgggtg aagaagtga ggccgtggtt ccagagtctg ttttgaagaa gcagaagaga 120
gaggaggaat gggcgttggc caagaagcaa gacctgagg ctgcgaagaa gaagagagcc 180
gagagccgca aactcatctn acaacagagc taagcattac gctcaaggag tacgatccac 240
caggagaagg cattgatttc ggttgaacgc gaggccaagc tga 283

<210> 1512
<211> 285
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555230H1

<400> 1512
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 gtcgccgatt tcgcgaggcc ggtggggcgt gtccgagcgg tgacgagcga cgacgagtgg 180
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 gagacggaaa cggagaagct gaagaagctt ggtggattcg tttta 285

<210> 1513
 <211> 282
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555231H1

<400> 1513
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 aaactggagc gagtttgtcg acaaaatggc ggcggcggaa gcggttactt atggcgtggg 180
 cgtgaattct ttgaggagtt ggagccagca tatgcagggg atttcaagaa gatcagaaac 240
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<210> 1514
 <211> 289
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555232H1

<400> 1514
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 tactggacta aacaagtgga aatgtagatg ctcttcatta caagggaaca agatatactc 180
 tcttgctaatt tgttccaagt catgtgattg ccatccagat gctgaagaga atgcatccat 240
 atggacatgc gatgtgcac caaacggggt tcnaaagtga cagcagatg 289

<210> 1515
 <211> 101
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700555233H1

<400> 1515

gnatcatctc taaacttcct totaaggaaa aacaaaaaaaa atatggagaa aaggttggtt 60
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<210> 1516
 <211> 289
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700555234H1

<400> 1516

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 tcattcatta cccccaacct ttactcgtg ctctctatcc agaggggatc tatgaccaac 120
 tgatgatgga tgggtgctgg gtattcacct gaatttggtc attcgtgata ccctttgatt 180
 gagtatccga gcaggttagg aagaatttag ttggggaatt ataattttgc tgtgagtgga 240
 ataagaatct tgatagggtc tgtttgtatt cttgaagtct gatttnttt 289

<210> 1517
 <211> 285
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700555235H1

<400> 1517

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 cctggccgac atcataatga catgcaattt gtatttgggt ttgcaaaca tcctgggttaa 180
 gagctttacc tctgagtttc ctcatgttga gagatacttt ggacctggtc aatcagccaa 240
 acttccgaaa aataattggg cagtcaagcg gctgaagcta ttcct 285

<210> 1518
 <211> 285
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700555236H1

<400> 1518

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 gtggatttga agaaagacct tttcctccaa ttgcagagtc aaagttaaag gcctaagttc 120
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 ttcacaaccc tggctctctt caaatctaag acaaaagccg ctcttgctaa gactaagggt 240
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<210> 1519
 <211> 283
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700555237H1

<400> 1519

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 ggagagagaag ggcaaaagat ttgatctttc aaacgaggag tttctgggggt gtcccaggat 180
 gaggctaaac ggtgaaatct caagcnnnnn nnnnnnnnnn nnnnnnnnnn nnacgggaac 240
 gacgncgttt tcgtcgcaga aatggtcgtg ctagctttaa cgt 283

<210> 1520
 <211> 297
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700555238H1

<400> 1520

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 gtcgagttcc agactcagtg cttggaaatc gactccaagg aagtcaaggc tcagatttgg 180

gacaccgccg gccaaagagcg attccgcgcc gtccacctac cgccttactc accgcggcgc 240
tgtcggcgcc ctncatgtct cagcacatct tcccgccgac cacctttcgg attagcg 297

<210> 1521
<211> 280
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555239H1

<400> 1521

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tgggcaccaa caaggaaga ccgcattggt gtttgaccg gaattttccg cactgatggt 120
attcctgaac aggacattgt caagcttggt gacaccttcc ctggccaatc cattgatttc 180
tttggtgcac tgagggccag agtatatgat gatgaagtga ggaagtggat tctggtgttg 240
gtgttgacat gttgggaaga agctgtaact caaaagagga 280

<210> 1522
<211> 283
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555240H1

<400> 1522

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gcatttgcca aaactgctag tcttcctct ctgagcccaa ctccagcacc agccccggca 180
cccgactacg tgaacctcac cgagttgcta cagtgttgct ggtccattca caccttcctg 240
gataccttga gtccacaaa gtgatgacat tccaaaacca agc 283

<210> 1523
<211> 244
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555241H1

<400> 1523

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 atggaaatca aggtgaagat gatattacat tcaagaagct tgagagtttg actctagctc 120
 gttacaaaaa ctagaagctc tacacagggga gttcctcttt gaattttcca tgctgaaata 180
 atgtcgttca gcaaactgc agcacgaaac tttcgtctt ttgacatgta cgaacantga 240
 gatg 244

<210> 1524
 <211> 278
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555243H1
 <400> 1524

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 ttgagttgaa aggatgtggt gtactatctg aagcattcat taattgtcca ctcttagcat 120
 ctctcgatgc ttccttttgc agccaactaa cggatggtg cttgtctgca acaactgtct 180
 catgcccact gattgaatca ttgatattaa tgcattgctc atcaattggt tcagagggtc 240
 ttcgatctct gtatgtctcc aaatgactgt tctggact 278

<210> 1525
 <211> 276
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555244H1
 <400> 1525

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 ttccagtgat ggcattctgt gccctcaaac ctgcccttt cactgttgag aagtcctcag 120
 tgagaggcct tccctctctc tcaaggaact cttcttcatt cagagttgtg gccagtggca 180
 agaagatcaa gactgacaaa ccttatggaa ttaatggtgg caggcttgag ggaggaatga 240
 tgcacggca ggaaaggaaa ggaggtgttt accatt 276

<210> 1526
 <211> 273

<212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555245H1
 <400> 1526
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 tatggtgccc gtactccgga ggtgaaatgc gcaagttgga ggcttgctgt ggaagcacac 180
 aacatctttg gctttgagac catcctgaag agtgcgttga agcaacaaag gaatacatcc 240
 atggcgaaca atataganag actccaaaac att 273

<210> 1527
 <211> 277
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555246H1
 <400> 1527
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 gaagttcatg gcagagatga aatgattttg atcaattttg gttcagtggt ccaaaaggcc 180
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<210> 1528
 <211> 281
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555247H1
 <400> 1528
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 nnnnnnnntt cagtgtgatg tgtgtgagaa agcccctgca accgtgattt gttgcgcaga 180
 tgaggcagct ttgtgtgcca aatgtgacgt tgaagttcat gctgcaaaca agctgcaagc 240

aagcaccaga ggctctcctc aatgtcntca aacaagctcc c

281

<210> 1529

<211> 277

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555248H1

<400> 1529

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gagaccccggt cgcttaggtg gtggacttgg taccgctaga gttggaggtg aagaagttaa 180

tcagcgacat tctgggaggg agcaacaaca gtctcgttct gaagaaccga gagtgcgaga 240

ggaccgacac gctgatagag cnggaaatat ccacgtg 277

<210> 1530

<211> 288

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555249H1

<400> 1530

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acactataca ataccataac cttatctatc gcaaccacct cccaaatcac tctcatccaa 120

cttcatctct ctcttcccc agttgccaga tcngaatac accttcactc ttgcgattta 180

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<210> 1531

<211> 289

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555250H1

<400> 1531

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 tcgggagggg cagcatgagg aagaccgtca ccaagcaggc ctctccgga agcccatggt 180
 aacggcccag accgcgtcaa gtacttgggc ccattctctg gcgagcccc gtcctaacct 240
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<210> 1532
 <211> 283
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555251H1
 <400> 1532

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 tccaacgcct tgggtgtcagc tacattgatc tctattatca gcaccgtgtt gacnnaactg 180
 taccattga agacaccatg ggagagctta aaaggctggt ccaagaggga naaataaggt 240
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<210> 1533
 <211> 286
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555253H1
 <400> 1533

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 aaccaggcat cacaaccgtt caaggggtga accttgaggt gcctattatt gatttttagtg 180
 acccagatga agggaaagtg gtgcatgaga ttttgagggc aagtagggac tggggcatgt 240
 tccaaattgt gaaccatgac atacctagtg tgttataaga aagttg 286

<210> 1534
 <211> 285
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700555254H1

<400> 1534

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ccattttcac acccttctac ttgcgcctt tctttctctt cttcccttca ctctcatcc 180
ttctctctat caatttctcc ttcttttttg tccatactat tcttcaagtt ctacacactt 240
tgccactcat gctgccttca gcatcagtgc gtgccgccga gaaga 285

<210> 1535

<211> 285

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555255H1

<400> 1535

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ctcaatgagt tgggtccgaa gaccggtggc gccggcaaag gtgcgaccaa catgcgccgt 120
accgtcaaga gtgctcctca gagcatttgg tatggccctg atcgtcccaa gtacctgggt 180
ccattctcag agcagattcc gtcatactg accggagaat tccccgggtga ctacggatg 240
ggacactgct ggactatcag ctgaccgga ccttcgccag taacc 285

<210> 1536

<211> 285

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555256H1

<400> 1536

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ttttgcttnc tgtgtgcaat taacacacac tcacacaaaa atgacggcat gccaaagattg 120
gccagagcca gtgattcgag tccaagcctt ggctgcaagt ggcttagcca caatccccga 180
acgtttcata aagcctaagt cccaaagacc cactaatagt aacaattatg ctccaaagac 240
cattcctctc caaattgggtc atcataagac attaccacca acagc 285

<210> 1537
 <211> 281
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700555257H1

<400> 1537

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 atggtaatgt gatagtgaac ggttcccctg aatatgttcg gtcctgttgc gagggtagcc 120
 tccaacgcct tgggtgtcagc tacattgatc tctattatca gcaccgtgtt gacacaactg 180
 taccattga agacaccatg ggagagctta aaaggctggt ccaagaggga aaaataaggt 240
 acataggatg tcggaagcta gccctggnac attaggaggc a 281

<210> 1538
 <211> 274
 <212> nucleic acid .
 <213> Glycine max

<223> Clone ID: 700555258H1

<400> 1538

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 ttcactttgt taggttcatt ggggttattg ttcgttgcaa tttaccagtt atcttggtat 180
 ggattgttct ttatttctga gaaaatagtg attttcttta ttccggactt atttattttc 240
 cattatccac acaanaanan tgcaaacana naaa 274

<210> 1539
 <211> 279
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700555259H1

<400> 1539

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aagaacagtg tgctgcaagc aattttagta aggataaaaa ttcaggaaca attattgttg 180
 atgaagatca gcaaaggccc aagaggaaac agaaagataa tcattatatt gactggaggc 240
 aacactgaag atcaagaaac aggtggtaag caatatata 279

<210> 1540
 <211> 281
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700555260H1

<400> 1540

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 atggctggct tccccaccag gaagaccaac aatgacatta cctccattgc tagcaacggt 180
 ggaagagtgc aatgcatgca ggtgtggcca ccagttggca agaagaattt gagactcttc 240
 ctacctggcc agaccttgat gatgccantg ggcaaaggaa g 281

<210> 1541
 <211> 282
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700555261H1

<400> 1541

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 gttaattccg cgaacgagct tctgcccttc aaattaacca tggagaatat tggtagaggag 120
 tacggctact ggccggagaa cgacatgctt ttccaaaacg aagaccttgg cagctgggcg 180
 ataatggatg aggcagcggt atcagggtca ggggtactatg attcaagctc cccggacggt 240
 actggtgctt cttcatcggt ggcattctaga acatgtctcc ga 282

<210> 1542
 <211> 280
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700555262H1

<400> 1542
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 caatggattc tagcagaagc aatgaatcaa gttacaaata cagtcacgct gttaaccata 120
 aaggtcatgc tgatatttca tccagggata gatttgcaag gagtaatggt attcccattt 180
 ctataagata taagaagttg ggcaacgagg aaataagcat gcaaggagat caccaccaaa 240
 gagatagggt ggcaacagac nttaggacac ctctggagc 280

<210> 1543
 <211> 284
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555263H1

<400> 1543
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 aaggatttgc catctgaaaa catgaaagaa gagattacat catgggaggn acgtgttaaa 120
 aaacttcttg aactgacacc accaaaaggg acagaatttc ttcacaaaat tgagcatata 180
 ttggaacgag aaaaaaattg ggtgtggtgg aaacgtgatg gctgcctccc atatgaaaaa 240
 caacgtatag agaagaaagc agtaccagag gcccaagaaa cgta 284

<210> 1544
 <211> 284
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555264H1

<400> 1544
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 tgcttctctt gccattgcag ctgttgccat ctccacacca agttcccaga agaattggatc 120
 actcttggga agcacaaaag cttcttttct tagtgggagg aaactgaagg tgaacaactt 180
 tacagcacca gttggagcac gatccagcac tacagtttgc gcattgctga gcctgatagg 240
 cctctgtggt tcccaggcag caccctcct caggctagat ggca 284

<210> 1545
 <211> 288
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555265H1
 <400> 1545
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 aacgggtggg gcctctcttc catctcccca gccaaaacct ctctcaagaa ggccacatta 120
 ggcccttctg tcttcgcaac cgtttagcann nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180
 nnnnnnnnnn nntcattca agacaggcct gtctttgctg cccctgcccc catcatcacc 240
 ccaactgtga gagaggatag gcaaaggaat acagcaagct attgaaga 288

<210> 1546
 <211> 278
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555266H1
 <400> 1546
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 ccagcaaggc caagtcctcg tggttttggg agcaaaaatt gaaaatccct aaagggttta 120
 acacaacaat ataatgggaa gtctggatca acaggtcacc ggtgatcaac ttgtttgatt 180
 tagcgttatt cagctaaaat aattctttac catcatagag cattcatata gctccaactt 240
 gtttgattca gcttctcggc taaaagatat taccatat 278

<210> 1547
 <211> 288
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555267H1
 <400> 1547
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 tccccaatgg caagccaact caagtccacc ttcactagga ctcttgtagc tcccaagggc 120
 ctctctgcct cttcaccact tcacctcgtg ctttctagaa ggcaatttag cttcactgtt 180

aaggccatcc aatcagagaa gccaacctat caagtgattc agccaatcca acggtgaccc 240
attcattgga agcctggaaa cccagttna caccagccct ttgatcgc 288

<210> 1548
<211> 283
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555268H1

<400> 1548

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tcagaaagag aactcagcga ggttctgtac acatgtacag taccctctgt cccactgagc 120
aaaggctttt tctcctttga cacaactttg ataanaaaaa tctgcactgc actgtttcat 180
tcagctagct agctttctcat atataccaat tgtgtgactg ttcataaaaa gtttcagata 240
aatggacaca aaaatgtgct ctcaaaaatt atcacttgaa ggc 283

<210> 1549
<211> 284
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555269H1

<400> 1549

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agggttttca actcccctcg aattatccct gtaatgcagt gcgattcccg ggtcctacca 120
tggagccatc agcaatgtac ggaccctccc agcccctgaa catcccctcg cggatcggcg 180
ctggcgaaaag agacgacggc tccggcaacg agcccgcctg cgacggccac caccaccaca 240
ttcagtacga aacgcagcgc tcgatgacgt gccgccggtg gcgc 284

<210> 1550
<211> 283
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555270H1

<400> 1550

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 caciaagcac ctccatgtcc ataaaccttc actctcacgc cttctccggc aaccctctgc 120
 tctccaaatt cccactcccc ggcaactgat gggaaacttg gctattgctg gtcattgctaa 180
 ggcaactgctg gaatggcata atttttcacg attttgtggc cattgtggag agaaaacagt 240
 cccaatggaa gctgggagac ggaagaaatt caaatgattc atg 283

<210> 1551
 <211> 236
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700555271H1

<400> 1551

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 agccattcaa tggcattcag ctccgtcgca ctgccacatg ctccatccca cccacgaagc 120
 gcagtcattt gtgccggttg tggatgatgc taagaggacg gaggaattga aggaaattag 180
 acaaatgact acggaacgaa ttaacgaaga ggttgtcgac taagggcgag cttggt 236

<210> 1552
 <211> 218
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700555272H1

<400> 1552

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 tcgtggaaac gacaccgctt tcaacgacct cctcaattcc ctcatccact tagacaacaa 120
 acaaaccctc atggatccta ctcaattcca attcgactcc tccccccca accaagagac 180
 ctctctctgc cattgaagac atccacaatg tcacggtc 218

<210> 1553
 <211> 75
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700555273H1

<400> 1553
gccagatttt catgaaccaa caccaaatca tgggtgtctta tctganggag aaaannaaac 60
ttatttcaag ggagg 75

<210> 1554
<211> 279
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555274H1

<400> 1554
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tgctatttgg gggttggttt catgacaatc ctagtggaag ggaacttcta tcagagctat 180
aatgtgttca tcggttaact tgctaccaag tctactcttt aaaccagatt actaaatact 240
aataggagag gttatctagt tggtcttgta caggatagt 279

<210> 1555
<211> 279
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555275H1

<400> 1555
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ccgcgccgtt gatatctatc tcaaggcgca tccacagttg gatgagatag agagagagaa 120
gggtgtgcagc gtgatggatc cggttgaagct ttcatacgag gcgcgtgtgc acgcgtcgca 180
gaacaagcga ttgccggtgc agattgtgct gcacgcgctt actacgacca gcttacggct 240
gaggagcggg gcggaggagc gtgatggcga cggagaaga 279

<210> 1556
<211> 281
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555276H1

<400> 1556
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atggcggacg ctgaaacctt cgctttccag gctgagatca accagcttct aagtctcatc 120
atcaacacat tctacagcaa caaggagcca nnnttgctg aactgcatca gcaatgcttc 180
tgatgctttg gataagattc gattcgagag cttaaccgac aagagcaagc tcgatgctca 240
nccangagct cttcattcgt ctgtgtcgac aaggataaca a 281

<210> 1557
<211> 279
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700555278H1

<400> 1557
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gtttattatt gtattgtatt cttttcttct gggctctggg ggcgtgtgaa agattataga 180
ttagatgatg tgatgtgaaa ganatgaatg aatagttttt ttggatgact tgtttgtgag 240
gtgagcgcaa cagagagaga gagcagagag agcagagca 279

<210> 1558
<211> 281
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700555279H1

<400> 1558
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caattcgaaa cgaaatatag ttcgagatca ttgtattatt tttgtactat attaacttta 120
atcttaattg gaacgaaatc tttcaaaatt ggatttctaa ttcttaattt atattttcgt 180
tttttcgttc ttttcttttt cttagattat aatcctaaaa caaaagagtt aagtgaatta 240
aaaaccaag ggagggttcag gccaaagtaaa gatatccgag t 281

<210> 1559
 <211> 281
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555282H1
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 accatactgg agatttcaac caggcaacta tctatcagca anaggcacta gatattaatg 180
 aaagagagct tggactggac catcctgata cgatgaaaag ttatggagat cttgctgttt 240
 tctattatcg actccaacat acagagtggc ttanagtagt t 281

<210> 1560
 <211> 283
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555283H1
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 tcggcagtag caacgcagag gagatcactc gtagtgaatg ctgccaaagc tgttgaagca 120
 gaaaagggtca gttatgacaa tgacatggat ggtagcaatg gaaggaggaa cttgatgttc 180
 cgccgcggcg gcggctgctg tttgctcngt tgctgggatg gcatggcaga tgagcctaaa 240
 ccaggaaccc cagaagccaa gaaaaattgc tccgatttgt gtc 283

<210> 1561
 <211> 287
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555284H1
 <400> 1561
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 cttcttccat ggctctctc atccccatcc ttggctggca aggccgtgaa gctgggcccc 120
 tcagccccag aagtgggaag ggtgagcatg aggaagaccg tcaccaagca ggtctccttc 180

aggaagccca tggtagggcc cagaccgagt caagtacttg ggcccattct ctggcgagcn 240
cccgccctta ccttaaccgg tgagttccca ggggattacg gctggga 287

<210> 1562
<211> 284
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555285H1

<400> 1562

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tccaagggct tgctacttac tacaaccaa ttaagaagcc accagtgtac aagcctccag 120
tgtacaagcc accagtgtac aaaccaccgg ttataagcc aaaaccaccg gtttacaagc 180
cgaaaccacc ggtttacaag ccaccatata agaagccacc atacaagaaa ccaccttatg 240
gaaagtaccc tccagtagag gacaacacct gcctaaagca agca 284

<210> 1563
<211> 278
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555286H1

<400> 1563

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gatggacgaa agcaatgaag atccaagact ccctcaccgc cgcaatccca acaagtcagt 120
ttcattggac caattagcag aatttggggg gttatactgg aagctgaatc caactatcta 180
tgagaacgat gaagagttgg ccaagattag agangatagg ggatacaact acatggacct 240
gctgatttat gccagaaaa gtgaaantna tgaacaga 278

<210> 1564
<211> 273
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555287H1

<400> 1564

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 cctgatttac aagcttggag gcattgacaa gcgtgttatt gagagggttg agaaggaagc 180
 tgctgagatg aacaagaggt ctttcaagta tgcctgggtg ctggacaaac ttaaggctga 240
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<210> 1565
 <211> 277
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555292H1
 <400> 1565

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 tgatcgatat gcagaagcta cttatctttt gcttgactgc atagactcat ttgcttcgat 120
 gagaccagca gatataatta gaaggaaaag accattagct gtttggttcc cgtacacaac 180
 tattgagcgg ttactatacc aactcgatga attaatacaga atgggtcgca ggtagatcat 240
 gtggacaagc tcaaaaaaat gttcatgatt cttacag 277

<210> 1566
 <211> 278
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555293H1
 <400> 1566

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 tgctagggat gaatcagagg acttcaaagg catcaacttg catttaagat ttgccaatc 120
 ttcaaaaaaa ataagaaagt taaaaaaaca aaacaaaact ttgtacctat gtagcttttc 180
 acaggacgct ctcgtgttaa gtagtatttc ctaggttcaa gttgtggtat ttaaaatgta 240
 tatatggcat ctacaagaac catattctat cattgtaa 278

<210> 1567
 <211> 277

<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555294H1

<400> 1567

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ttcaaaaaaa ataagaaagt taaaaaaaca aaacaaaact ttgtacctat gtagcttttc 180
acaggacgct ctctgtgtaa gtagtatttc ctaggttcaa gttgtggat ttaaaatgta 240
tatatggctc tacaagaacc atagtctatc nttgtaa 277

<210> 1568
<211> 279
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555295H1

<400> 1568

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ttcccaatta atgtgcttga attgaatatg tctactgagga tatcatagtt gtactcaaaa 120
ccatgtttct tgaaattctt gtaatgcctt cctttttata aaagataaag tgtacaatgt 180
caatactaag caatgacaac atacaacaat aacaataaca ataatttttag gatcaagtta 240
taccttaatc aatccgtccc atactttcgg ggcacatcaat 279

<210> 1569
<211> 291
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555301H1

<400> 1569

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ggatgagaga aacaacgatg ttgatagttt gatgaaagat gaaagctggg ttcagtttct 120
tacagagcga gcagctgaag cagttgttaa cattcagatt gctaccaat gagataaagt 180
agtgaatcct gtagatacaa attctcaaaa tgggcatcta gatggtgatt cacaagattg 240

cattaaatgg atggaaacgc tactctactt catcatctca tcatgaagtc t 291

<210> 1570
 <211> 269
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700555303H1

<400> 1570

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 gggttggttg ttgtagattt gtcagtggta cggaacaagg atccagagtg gttcttcttc 180
 tgtccgcaga ccggaagtat ccgaacgggc acaggttgaa ccgagctacg agncaggcta 240
 ttggaaggca acggaaagga tcggaggat 269

<210> 1571
 <211> 282
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700555304H1

<400> 1571

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 agcttggttc ccttgaaggc gaaatggcca cccagcacat ttcacaacca cagaagcgca 120
 aggggtgtct tgttaccatg cttttcatca ttgcaaatga ggcacttgcg aggggtggcaa 180
 gtttgggcct tttgccaac atgatactgt atttgatggg gacctacagg cttcaccttg 240
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<223> Clone ID: 700555305H1

<400> 1572

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 ttcagtncca agagagccag aggagcctga agatgcaact aaaggaagag atgtgttcaa 180
 tgaaaagcca cctggctgat gaacttttgg gcagtatncc gatattggga aagttcagtt 240
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<210> 1573
 <211> 272
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555308H1
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 aagtcttcat gagatccttg gtgggtgtca agttgcagat ttaatactgt ggaggcggaa 180
 gaaccttact gtggggatat tgttggtcac actagctgtt tgggttgtgt ttgaaagatc 240
 tggttatact cttctgtctc ttgtttctaa gt 272

<210> 1574
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 <223> Clone ID: 700555309H1
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 agctgttggt gttgttggtg gctgggggta gtctctgtgg aggtttgggt gttttttgag 180
 gcagagctta ttctcatttt gtcctaatgg agatgcaggt ctcaatcgtc ttacgtccac 240
 tcttctggag actttttctc ctcttttaat aggaaaaaa 279

<210> 1575
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<223> Clone ID: 700555310H1

<400> 1575

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ngcacttggt agtgtccana gaagggcatc acaaggggtca ttaggggtgtt gccctccatt 120
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<210> 1576

<211> 278

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555311H1

<400> 1576

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aatcgcatgg gaagagccat ttggaccagt tttaccagta attaggatca attcagttga 120
agaaggaatc catcattgca atgctagcaa ctttggactt cagggatgtg tctcaciaag 180
gatgtcaaca aagcaataat gatgcagtga tgcaatggaa acgggaacag ttgcagataa 240
ntccgccccg gctcgtgggc cagatcattt cccttcag 278

<210> 1577

<211> 281

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555312H1

<400> 1577

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caacgaagca agtgcgaaat gagcaggagg agttttgcgt ttaagggaat tgtggcctct 180
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tgaaagatgc cgtcacaagc cggaagggtac aatattggac a 281

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<211> 279

<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555313H1

<400> 1578

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cagctgaaaa ccctaattac ccggcgggtg actacaagcg accttccatc ttgtcatttc 180
ctgcggaggc ccgccctcag agttacatcc gagttacgat agtgaaagcg ctgtctcttt 240
ccataagatt cctgcaattg ttggacagcc tgccaattc 279

<210> 1579
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<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555314H1

<400> 1579

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tgccacgccc ttatcctgag tatgatacac tgcggaacct ctatcaaagc cgctgttggt 180
tatctggcaa cggeattagt gaagctatct gtctagctac ttttctgcaa ggtttcggag 240
agtgatagct tgnatccgtn atcaggagtt tttgaaggca ttaataggct 290

<210> 1580
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<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555316H1

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caacaattgt agttggcatt gcaatgggag attcatcaaa ggacaaagag gaatgcactg 180
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ccccagattg ttgtagtggt ctcaagcaag tgctcaagaa caacaaa 287

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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555317H1
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 agagaccaga aaaattatct ttaaagaagc aattgaaact gaaatgccta gaacaaaatc 180
 ccaatcctag ccaaaatcaa gttntcgtt agatatggag tgggttctga tgtgggacag 240
 atcagacagt gttgaattat agccaatcaa gtagagtaaa tatccca 287

<210> 1582
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555318H1
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 ttccactccc cggaatctat gacccggatt tcattgctgc caaccaagga gaccgtgcca 180
 ctaacgtaat caggggcaca aagaaagaac aagttcaaca aattcattca aagacttaag 240
 gagttcaaag aaagcactaa gggtgacaag gtggttgccc tgtgg 285

<210> 1583
 <211> 280
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555319H1
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 tgctggagag ttggaaagtg gaaatgcagg agagccagca aaactgatca ggcagagata 180
 ccgtgaagcc gcagacttga tacaagaagg gaaagatgtg tgctctctcc atgcaactat 240
 ctgatgcagg agctggtcgt ctggtggaac cacccaatac 280

<210> 1584
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 <213> Glycine max
 <223> Clone ID: 700555320H1
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 ggaaatctct caagtatttg atttcacct atacaatgaa aaacttgagg agtgttatga 120
 gagacttaag aaactattgg gacttgacgg tttcatcact gctccaccta aatccggacc 180
 tatagagatt gatttaccaa tggaccattg cagtgtccaa aattgataac aaaatcatca 240
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<210> 1585
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555321H1
 <400> 1585

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 atgagcaacg acaaggacac attcaacgtc gccgatctca cttctgctct caacgaggac 180
 aatagagcag accttgtaa tgctcttaag agcaagatac agagtttggc tggacaacac 240
 tcggatatct agagtctctg tcgccaatg tccgaaa 277

<210> 1586
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 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700555322H1

<400> 1586

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agaactagaa gaagagagaa gtgcatctgc tatagcagcc aatcaaaca tggcaatgat 180
aaataggctt ncaagaagag aaagcagcaa tggcagatgg aagccttgnc agtatcaaag 240
atgatggaag aacaatctga gtatgatcag gaggcttgca a 281

<210> 1587

<211> 270

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555324H1

<400> 1587

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aggaccagag agctctaaga ttgagtttga gaatccactt gttgcagagg caaacttttg 180
tttgcaggtc tgggaaacca catangnagc ttctgattcc attccccaag ggttgatata 240
gaatgacaaa ggctggataa catgactagg 270

<210> 1588

<211> 278

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555326H1

<400> 1588

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aagtctcggt ctggctaagt ccatgttcat tgtttactat acctcaccac tccaaggttc 120
tcgtaatttt cttcagcaga aaacgaaact attgcttcca gagaagagca tcattctacga 180
ccattttggc aatattataa aacaagacaa aaatggagag tgacttgagc tgggagcgga 240
acacactcna tcatgagcta ttcagggatg gaggttagc 278

[illegible]

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<400> 1590

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<400> 1591

576

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 aaaagcttat agttggtggt gatgatatgg acttattcaa aggtatcggt ttaaattctg 240
 gccaggagca actccggcag caatatccag aacagca 277

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 gccatctctc cctcccccga tctcttccac cgcaacaccg ctancatgcc ttctcggaag 180
 gaaaacgott ccggtggaaa cttggccggt cttcccaaag ttctcggaag tacgcttggc 240
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 caaagttgct acgagtcgga ttggccctt ttggactcca ttgcgcgcca cttactcggc 180
 gactccgagg aacacagatt cggagccccg aatgttaatt cgggtagcac ttccatgtac 240
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 agcaccaagc ctaaccagct tgtttgcaag gcacagaagc aagaggatat tgatgtcagc 180
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<210> 1595
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555335H1

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 ttgagaaggc gaagaagaag ctgagaggct tcatcgctga gaagagatgc gtcctcttaa 180
 tgctccggtt gccatggcat ctgctggaac ttacgacgtg agctcgaaga ccggtggtcc 240
 cttcggaacc ataaagcacc cctccgaatc gtcagg 276

<210> 1596
 <211> 267
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555336H1

<400> 1596
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 aaccaactgg gaaatttggc ctaattgtga ttcattctct ttggggggct tttgtggatt 180
 aaggtagta tttgcttgat tagggaagtc tttatgtgac ctgggtggaa tgatctgtgt 240
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<210> 1597
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 <223> Clone ID: 700555337H1

 <400> 1597

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 tcttaagaat tacaacaagc tgggtgtctct tggcttcaag attatattct tgtgcaggaa 180
 gaacactgga caaacaggcc gtaacagaag caaacttaaa gaaggctggc taccacacat 240
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 <212> nucleic acid
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 <223> Clone ID: 700555338H1

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 caaggctgct ggcgatnaga gattcaaaac gctgccccca gcagagtctc ttcctaggaa 180
 tgaaaccatt ggaggctaca tctttgtttg caacaatgat accatggctg agancctcaa 240
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 <400> 1599

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 attttttcaa accaccagaa gtccctgagg atgatgttga cattgatgaa gatttggat 180

gacagtctgt cccaataaac ctaaggctaa aaatatgaag ctttgtctat tgctataata 240
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<223> Clone ID: 700555340H1

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<223> Clone ID: 700555341H1

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gaatcagann caggcgtacg tatacgtgta gtagggatgat tgagagatgg acgctcccct 180
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tgaggagct g 251

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<211> 274
<212> nucleic acid
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<223> Clone ID: 700555342H1

<400> 1602

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 actgctcttg atagtgggtga tgggaaggagt catcataaca tgagtgatga tgggtcgggtg 180
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<210> 1603
 <211> 275
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<223> Clone ID: 700555343H1

<400> 1603

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<223> Clone ID: 700555344H1

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 cattcactgg cctcaaggca agcgcaggca aagtgagtgc cgccgcagtt aaagtctcag 180
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 ttgaatgtgg ggagtggaag cagggtggcc tcagtcacac gtgncagggt tcacagttag 180
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<210> 1606
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 <213> Glycine max
 <223> Clone ID: 700555346H1
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 ttttcaattc caactctctc tcacatgcaa ttctccatcc aacaaaagtt tctcatcatt 180
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<210> 1607
 <211> 280
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 <213> Glycine max
 <223> Clone ID: 700555347H1
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 agaaaagcct cctttcttgt taaggcagct gctactcccc ctgttcaagc aaggatcaga 180
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<210> 1608
<211> 115
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555348H1

<400> 1608

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<210> 1609
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<223> Clone ID: 700555349H1

<400> 1609

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ctgcctccgt ctccactgtc ggagctgtca acagagctct tttgaacctg aatgggtctg 120

gacctggggt ttcagctccc agttcatcct tctttgggag cagcttgaag aagggtattg 180

gctcaagggt ccccaacaca aagatttctt ctggaagctt ncaagatgtt gctgtagaag 240

agaagaaaga gattgaagag acccagcaga ccgacaagga c 281

<210> 1610
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<212> nucleic acid
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<223> Clone ID: 700555351H1

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gaccactatg gcaaaggcac tgttcttgat gcggataagt atgctatcat gcgcctgggt 180

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274

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<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555352H1

<400> 1611

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cctagaaccg ccgccgcaa tggctcgac cgcttcctat acggcaaccc tctctgcacc 180

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<210> 1612

<211> 270

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555353H1

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ggtgaagggt caccacttgt gaaatcatcc ttgagaaga ttgaggctgt tgatgaggaa 120

aagaaggtag tgtcgtacac tatcattgat ggggaactcc ttcagcacta caaacattc 180

aaggagaca ttccagtac tccaattggc gatggatgag aggtgaagtg gaggctgtg 240

tacgaaaagg ttagccatga tattctgnat 270

<210> 1613

<211> 293

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555354H1

<400> 1613

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cgtggagcac tactactcca ctttgcgaca ccaaccgcaa caatctcgcc aatctctacc 120
 aggaagggtc catgctctct ttgcgagggt cagaagatcc agggctccca caacatncgt 180
 gcgnccaaac ttcacctncc cttcccttgc caacagtggc cagcactcca tgcaccaccg 240
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<210> 1614
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 <213> Glycine max
 <223> Clone ID: 700555356H1
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 agactgtgaa tacaagtggg agagctccat ttcatcacgc tgactgcaag ttgttggcctt 180
 acgattcaag aattggagcc actccctgaa ttaaaaatat tgatgagata aggaagttcc 240
 atgaactggt accttgaaca ctttgaaaat aatgta 276

<210> 1615
 <211> 275
 <212> nucleic acid
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 <223> Clone ID: 700555357H1
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 caagatccag gacaaggaag gaatcccccc ggatcagcaa cgtctcattt tcgccggaaa 180
 gcaacttgag gacggccgta cccttgctga ctacaacatt cagaaggaga gtactcttca 240
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 <211> 277
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700555358H1

<400> 1616

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 gctgcagatg aagctgtncg gaaatgggtc ccagctgctt attctatcag acncttcaga 180
 agcactggaa ccaactcatc ctggctatcc ccatactcct tgctgttggt actgttccat 240
 cagcntctaa tccagatggc ctgcgaatgn tcagctt 277

<210> 1617

<211> 278

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555359H1

<400> 1617

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 tcattggtgc tttaagcaaa gcaggttatg ataaaccagg atcccaaaag gtttatattn 180
 caatgccact aatagttctg tactgctgaa attgcaagga gaaaaccagt tcatgagcta 240
 gtgnacaag attgacgaga ctgttgagga ggcagctc 278

<210> 1618

<211> 271

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555360H1

<400> 1618

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 gctctcagaa aggctttgaa ggatggggga ctgatgagaa aactgtcata gtaatatggg 180
 gtcatagaac tgtttatcag agggcagcaa atcagaagag tctatgagga antttccagg 240
 aggatctgtg aaacgcctag agtctgagat c 271

<210> 1619
 <211> 226
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700555361H1

<400> 1619

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 cctgcccact gcaacaagga cactntcaca agaccaagct gctctgcaga cttgctgaca 180
 atnacctact ggctttctgc agctcccttt tgcttgatg gaggcg 226

<210> 1620
 <211> 274
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700555362H1

<400> 1620

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 ctctcttttc ccatggagggt ggagagtgtg atttattgaa ctaaaaaagt aacttgtgat 180
 tcaactttat gcctgcagtt agagggtgact gttgagagca agaacaaaga cctcaagcac 240
 ctgggggtttg tgaggattgc tgctatcaaa catt 274

<210> 1621
 <211> 274
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700555363H1

<400> 1621

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 ggcgatcatgc ttgggaagta gcatgcaatg gtaaccctag anataggagg gacattctga 180

tcggccttgg aggactctat ggtgctacaa caagtctcac aagtaacaac actggttctg 240
cattggtgct cntgtcgct ccagatccaa taac 274

<210> 1622
<211> 277
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555365H1

<400> 1622

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atattgtttct tgctgcagca tatgcacatg agctgccacg atatggtctt gaagtagggc 180
ttacaaatta tgctgcagct tattgtactg gtctcctgtt ggcnegaaga gtcctcaaaa 240
cacttgaaat ggatgaggag tacgaggaaa tgttgag 277

<210> 1623
<211> 278
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555366H1

<400> 1623

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tcctattctc cgctgccgta gccaccgtcg aacgaatcga cgatgaagac aaccttctga 120
tccgtcaagt ggtgccggac gcggaggacc accacctgct acaacgcgga gcaccacttc 180
tccgccttca agacaaagtt cgccaagacc tacgccacgc aggaggagca cgaccaccgc 240
ttccgtatct tcaagaacaa ttgctccgcy ccaagtcg 278

<210> 1624
<211> 270
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555367H1

<400> 1624

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gaaactgctt caagaggagg tcagcgagat tcaagtttcc aaagcttagc agacaaatcc 180
ataactcggtt tttacttgaa tttcggcttc atggccacgt acgccaagtt ggatctcctt 240
ttaggaagtg nagatacctt tattcaagtt 270

<210> 1625
<211> 276
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700555368H1
<400> 1625

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attcatttcc accgttacat ggatccagta agcgtgtggg gtaacacgcc cttggcgacg 120
gtggatcccc agatccatga cctcatcgag aaggagaagc gccgtcaatg ccgcggaatc 180
gagttcatcg cctccgagaa cttcacctgc cttcgccgtc atcgaggccc tcggcagcgc 240
tctcacgaac aaatactccg agggcatgcc gggcaa 276

<210> 1626
<211> 270
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700555369H1
<400> 1626

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caatgataaa aactccagcc tccatagtgt tgataattta caccttcata tcaatgtggt 120
ttgtaggtgg tctcaactgc ttccatttgt atttgataag taccaatcag actacatatg 180
aaaacttcag ataccgatat gatcggnoga gccaatccat ataataaagg agtgttgaat 240
atttcaaaga gatattctgg catcngcatt 270

<210> 1627
<211> 272

<212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700555370H1

<400> 1627

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 tgccagaaan ngtagtcgta gtttgctctg ctggaaatga tggaccatca cctttaagtg 180
 tcacaaatgt tgcaccctgg tccatcacgg ttgnctgcta gnacactaga cagggatttc 240
 tcagcgacat ttctctcagc gnacaatcaa tc 272

<210> 1628
 <211> 272
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700555371H1

<400> 1628

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 cccatccaag gcttcacact ctttcccaac ccaatgcgcc tcaaagagac ttgaggtgac 120
 agaattctct gggctaagat ccacttcatg tgtgacatat gctaacgatg ctagagaatc 180
 ttcttttttt gatctttag cttcccaact tcactcccaa gaccaatgga tcatcaactc 240
 ctgtgagggg agagacagtg gccaagttga ag 272

<210> 1629
 <211> 272
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700555372H1

<400> 1629

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 cttcatctcc gaagctatgg agttcgttct caaggtgttg aaggatggtc tttctgccgt 180
 gcatgtgccc ttatgcatat ggatttgcta tcatattgct cactgttata gttaaggcag 240

cgacgcttcc cctggacaaa gcaacagggt ga 272

<210> 1630
<211> 178
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555373H1

<400> 1630

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tgtgactttt cacactacta ntaagtaata atncactttc caattgatca ttcttctc 178

<210> 1631
<211> 272
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555374H1

<400> 1631

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ccaacagaac caactatctt tctctccctt agcttcctct ctttttgact tcagtggaac 120
cagacttcaa actcaacttc agttcaagag aaaactatgc catccaaaag ggtctttcta 180
cgtctcggnc atcgagcacc aagaaaatcc taataatggg aggcaccagg tttattgggtg 240
tgtttttatc taggctcctg ttaaagaggg tc 272

<210> 1632
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<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555375H1

<400> 1632

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agggttgggt tcattaattt tgtatcaatc ttccttctga gcggtaggcg tggggatacc 180

agagtctttt cggaagcaa gagagggttc tctccgtttt caatagatct ctactgtct 240

<210> 1633

<211> 270

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555376H1

<400> 1633

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taacagtgtt caaatgtctt cgttcctcca agaactgttc cataatagac cctctcataa 120

caacagtgcc ctcaaaccgt ggcatgtttg ggtcacactt ggtggaacct ttgtccatta 180

attcgacaaa gttgtgggga cctagaattt ctgctgctgt tgcacaagaa gaggctgttg 240

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<210> 1634

<211> 267

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555377H1

<400> 1634

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gcagganttt tggcttttnc tattgaatta gattcctctg ggaattcaat tctgattctt 120

ccttagtttt cggttttctg tcttcttttt tctctattt atattttggg ttggttttct 180

gttgagtctt gacttgcttg ntcaaatcca acccagtttc acacnagttg gnngncccca 240

atnccgnaag ggaaananga acgcccc 267

<210> 1635

<211> 263

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555378H1

<400> 1635

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tttcatgggtg tcatcacttg tttcgggtgcc aaacatccat ttctcagnct gagaattttt 120
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ggaatgatga gtgtgaatga caaccaaact ggttcgaaat atatgggtaa ccaatattct 240
ataatgatca gtagtggttg taa 263

<210> 1636
<211> 274
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700555379H1
<400> 1636

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gatacgggaa ntatgggttag agacccctc tctaaacata ttgcgggtctt acttcaaatg 180
ttgccatggg agactcagaa actaaatctg nattctgagc ttccacacca tcattcnttc 240
ctctgtgtca ggcatagctg aaggtgctcg atgc 274

<210> 1637
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<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700555381H1
<400> 1637

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tgcagtgagt tcaactggcag ttgctggtgt ggttgcattg gtgggctcag ctgggatgat 180
ctcagcaatt gataggctcc ttaatcctgg gctctgagtc gtaggcattg ctacatgggt 240
ngnttgctac aagac 255

<210> 1638
<211> 271
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555382H1

<400> 1638

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 agtgacacaa cagtagagag acgagtttat tgctctgccg ctgctcaatc accaccacca 180
 gcatggccag gaacagctat tcccagacct tctgatttca agacatggga tgggcaaaaa 240
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<210> 1639

<211> 267

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555383H1

<400> 1639

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 gtcacagcc aaaagtatca gaagaaagca gacgggcttc tggtgatatc ttcttaaagg 180
 cagctgggta tcttgactgt gctgtaaggc atgttctcca cagttgcctg gcgaactcag 240
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<210> 1640

<211> 265

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555384H1

<400> 1640

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 nnnnnnnnnc tgggtgtggat gatagcgacg ccgttttaggt gttggggaaa gcgagggact 240
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 ttgggtataa cctcaaagtt gagtgtggtg tgaaatcgaa ccgtcanaaa tctacaaact 180
 cctgatggca tgcnttttct ttgctgataa tctgnagctc ttggaccaca aaaatgatga 240
 tgtttatata tngggncata catgnagnaa g 271

<210> 1643
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555387H1
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Physical Properties		Chemical Properties		Thermal Properties		Mechanical Properties		Electrical Properties		Optical Properties	
Property	Value	Property	Value	Property	Value	Property	Value	Property	Value	Property	Value
Density	1.25 g/cm ³	Refractive Index	1.50	Softening Point	150 °C	Tensile Strength	50 MPa	Volume Resistance	10 ¹² Ω·cm	Transmittance	85%
Viscosity	0.5 dPa·s	Acid Value	1.0	Thermal Stability	200 °C	Elongation at Break	5%	Surface Resistance	10 ¹⁰ Ω	Absorbance	0.15
Flash Point	180 °C	Saponification Value	180	Decomposition Temp	300 °C	Modulus of Elasticity	1.5 GPa	Dielectric Constant	2.5	Color	Colorless
Freezing Point	-10 °C	Hydroxyl Value	100	Half-life	10 years	Poisson's Ratio	0.3	Dielectric Loss	0.01	Fluorescence	None
Boiling Point	180 °C	Acid Number	1.0	Stability	Stable	Impact Strength	5 kJ/m ²	Volume Resistivity	10 ¹² Ω·cm	UV Absorbance	0.2
Melting Point	150 °C	Saponification Number	180	Thermal Conductivity	0.2 W/m·K	Tensile Modulus	1.5 GPa	Surface Resistivity	10 ¹⁰ Ω	IR Absorbance	0.5
Crystallinity	50%	Hydroxyl Number	100	Thermal Expansion	10 ppm/°C	Compression Modulus	1.5 GPa	Volume Resistivity	10 ¹² Ω·cm	NMR Shift	4.5 ppm
Thermal Conductivity	0.2 W/m·K	Acid Number	1.0	Thermal Shrinkage	5%	Flexural Strength	50 MPa	Volume Resistivity	10 ¹² Ω·cm	Mass Spectrometry	44.01
Thermal Expansion	10 ppm/°C	Saponification Number	180	Thermal Degradation	200 °C	Flexural Modulus	1.5 GPa	Volume Resistivity	10 ¹² Ω·cm	Elemental Analysis	C: 60.0%, H: 10.0%
Thermal Degradation	200 °C	Hydroxyl Number	100	Thermal Stability	200 °C	Flexural Strength	50 MPa	Volume Resistivity	10 ¹² Ω·cm	Elemental Analysis	C: 60.0%, H: 10.0%
Thermal Stability	200 °C	Acid Number	1.0	Thermal Conductivity	0.2 W/m·K	Flexural Modulus	1.5 GPa	Volume Resistivity	10 ¹² Ω·cm	Elemental Analysis	C: 60.0%, H: 10.0%
Thermal Conductivity	0.2 W/m·K	Saponification Number	180	Thermal Expansion	10 ppm/°C	Flexural Strength	50 MPa	Volume Resistivity	10 ¹² Ω·cm	Elemental Analysis	C: 60.0%, H: 10.0%
Thermal Expansion	10 ppm/°C	Hydroxyl Number	100	Thermal Shrinkage	5%	Flexural Modulus	1.5 GPa	Volume Resistivity	10 ¹² Ω·cm	Elemental Analysis	C: 60.0%, H: 10.0%
Thermal Degradation	200 °C	Acid Number	1.0	Thermal Stability	200 °C	Flexural Strength	50 MPa	Volume Resistivity	10 ¹² Ω·cm	Elemental Analysis	C: 60.0%, H: 10.0%
Thermal Stability	200 °C	Saponification Number	180	Thermal Conductivity	0.2 W/m·K	Flexural Modulus	1.5 GPa	Volume Resistivity	10 ¹² Ω·cm	Elemental Analysis	C: 60.0%, H: 10.0%
Thermal Conductivity	0.2 W/m·K	Hydroxyl Number	100	Thermal Expansion	10 ppm/°C	Flexural Strength	50 MPa	Volume Resistivity	10 ¹² Ω·cm	Elemental Analysis	C: 60.0%, H: 10.0%
Thermal Expansion	10 ppm/°C	Acid Number	1.0	Thermal Shrinkage	5%	Flexural Modulus	1.5 GPa	Volume Resistivity	10 ¹² Ω·cm	Elemental Analysis	C: 60.0%, H: 10.0%
Thermal Degradation	200 °C	Saponification Number	180	Thermal Stability	200 °C	Flexural Strength	50 MPa	Volume Resistivity	10 ¹² Ω·cm	Elemental Analysis	C: 60.0%, H: 10.0%
Thermal Stability	200 °C	Hydroxyl Number	100	Thermal Conductivity	0.2 W/m·K	Flexural Modulus	1.5 GPa	Volume Resistivity	10 ¹² Ω·cm	Elemental Analysis	C: 60.0%, H: 10.0%
Thermal Conductivity	0.2 W/m·K	Acid Number	1.0	Thermal Expansion	10 ppm/°C	Flexural Strength	50 MPa	Volume Resistivity	10 ¹² Ω·cm	Elemental Analysis	C: 60.0%, H: 10.0%
Thermal Expansion	10 ppm/°C	Saponification Number	180	Thermal Shrinkage	5%	Flexural Modulus	1.5 GPa	Volume Resistivity	10 ¹² Ω·cm	Elemental Analysis	C: 60.0%, H: 10.0%
Thermal Degradation	200 °C	Hydroxyl Number	100	Thermal Stability	200 °C	Flexural Strength	50 MPa	Volume Resistivity	10 ¹² Ω·cm	Elemental Analysis	C: 60.0%, H: 10.0%
Thermal Stability	200 °C	Acid Number	1.0	Thermal Conductivity	0.2 W/m·K	Flexural Modulus	1.5 GPa	Volume Resistivity	10 ¹² Ω·cm	Elemental Analysis	C: 60.0%, H: 10.0%
Thermal Conductivity	0.2 W/m·K	Saponification Number	180	Thermal Expansion	10 ppm/°C	Flexural Strength	50 MPa	Volume Resistivity	10 ¹² Ω·cm	Elemental Analysis	C: 60.0%, H: 10.0%
Thermal Expansion	10 ppm/°C	Hydroxyl Number	100	Thermal Shrinkage	5%	Flexural Modulus	1.5 GPa	Volume Resistivity	10 ¹² Ω·cm	Elemental Analysis	C: 60.0%, H: 10.0%
Thermal Degradation	200 °C	Acid Number	1.0	Thermal Stability	200 °C	Flexural Strength	50 MPa	Volume Resistivity	10 ¹² Ω·cm	Elemental Analysis	C: 60.0%, H: 10.0%
Thermal Stability	200 °C	Saponification Number	180	Thermal Conductivity	0.2 W/m·K	Flexural Modulus	1.5 GPa	Volume Resistivity	10 ¹² Ω·cm	Elemental Analysis	C: 60.0%, H: 10.0%
Thermal Conductivity	0.2 W/m·K	Hydroxyl Number	100	Thermal Expansion	10 ppm/°C	Flexural Strength	50 MPa	Volume Resistivity	10 ¹² Ω·cm	Elemental Analysis	C: 6

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<400>	1645

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<223>      Clone ID: 700555392H1

<400>      1646
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596

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 tataacactt gttggatggg gagctcaatt atctataatg gaacaagctt gtcttgatgc 180
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<223> Clone ID: 700555396H1

<400> 1649

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aacgtcaagg ccaagatcca ggacaaggaa ggaattcccc nggancagca acgtctcatc 180
ttcgccggaa agcancttcg aggacggccg taccctacgc cggactacaa catnccagaa 240
ggagttcaac ccttncacct tgtcttcgtc tccgtggtgg 280

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<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555402H1

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ttgggccg 308

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<212> nucleic acid

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<223> Clone ID: 700555403H1

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 aactctaaac aactctataa aaagccacag cagacaatgg ccaagcttgc caaacctat 240
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 cctttagcct cactcaagtt ctttcccttt ttttagaaa agattcaaag ggtgaaacca 240
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 <223> Clone ID: 700555408H1
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 ncgataacaa tgttttgggg caagggttaa gatgacgacga taaaaaattt cccgagtcgt 180
 gatgagcgga agaaactgag ggagtattac gagaaattca gggaattcat ggatcgtgta 240
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 cccacc 306

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 <223> Clone ID: 700555409H1
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 agg 303

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 gattcaagac aaggaaggga tcccacctga ccagcagaga cttatctttg cgggtaaaca 180
 acttgaggat ggtcgcaccc ttgccgatta caacatccaa aaggaatcaa ccctccatct 240
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 tcacc 305

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<223> Clone ID: 700555411H1

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 agaagagggtt ggccttactt tggacaaaagc tgggaaagag gttctcggat atgcctccaa 240
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 a 301

<210> 1659
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 <213> Glycine max

<223> Clone ID: 700555412H1

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 gaagagggtt ggccttactt ggacaaaagc tgggaaagagg ttctcggata tgcctccaag 240
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 <223> Clone ID: 700555414H1

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 cagaatttca ttatcaagca aacatcgaat cagatggctg atatgggctt caatatggta 180
 caaatgagac aaacatgtca gactttttga attcagttgt taactgggat caagtaccct 240
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 <213> Glycine max

 <223> Clone ID: 700555416H1

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 aaccactaca gctgctgcta gcatgttgct ttctggatca tgtccagtgc agatggata 299

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 <213> Glycine max

 <223> Clone ID: 700555419H1

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tcataacaga naaaaaaaga acatttcagc tctaagcctc taac 164

<210> 1663

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<223> Clone ID: 700555420H1

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agcttccggt taaggaggac gattcagaag atatggtggt gtacggcggt ctccgtgacg 240

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ccnnccttct c 131

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<212> nucleic acid

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<223> Clone ID: 700555422H1

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<223> Clone ID: 700555423H1

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 tattacagca tcaggaacna ggaaaagtga actgtttctg ggctgatgta agngaccagt 240
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 tat 303

<210> 1667
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 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700555424H1

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 tngcatttac cccaaatttg caccacaacc gattccggaa gatgctttgc ttactggacc 240
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<223> Clone ID: 700555425H1

<400> 1668

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 ttgaagaaca agcagctgcc acagcataat gtgttcaaata gacaactatt ttcatttccc 240
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<223> Clone ID: 700555427H1

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 ggcccagacc gcgtaagta cttggggcca ttctctggcg agcccccgtc ctactcactg 240
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 <213> Glycine max

<223> Clone ID: 700555428H1

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 aatgaggtga atgacctatg ggttcagaga cttctctatg ccgttgagtc aaatgtggca 240
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<212> nucleic acid
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 <223> Clone ID: 700555429H1
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 tttctacttt ctccatggc cactgcagat caacaaggga aagttgaaga atttgaagat 240
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555431H1
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 <223> Clone ID: 700555432H1
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 cttatggatt cctcttgata gtgctgtgag agcaagaaat cttctctttg atgggagcaa 180
 taattatcac tctagtgatg caaatgactt gctattaggg gctggtctca caaatctcga 240
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<210> 1674
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 <212> nucleic acid
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 <223> Clone ID: 700555433H1

 <400> 1674

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 gccgaccgcg ccaccacagc ctcgtngag g 151

<210> 1675
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 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700555434H1

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 <223> Clone ID: 700555435H1

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 <223> Clone ID: 700555436H1
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555437H1
 <400> 1678

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<210> 1679
 <211> 301
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555438H1
 <400> 1679

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 atactcactg ttcgaaaccc ggcgactgca agtggttagt aaaatgaagt ggccacaggg 180
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<211> 299

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555439H1

<400> 1680

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ctatggtgcc cgtactccgg aggtgaaatg cgcaagttgg aggcttgcgtg tggaagcaca 180

caacatcttt ggctttgaga ccattcctga agagtgcgtt gaagcaacaa aggaatacat 240

ccatggcgaa caatatagat cagactccaa aacagttaac caacaagctt acttttatg 299

<210> 1681

<211> 298

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555440H1

<400> 1681

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agactaaaca gagttcgggtg acggttacgc tcagttacgg cgcgttgacg tgccgcgcgg 120

aattttctgc gactttgcta gcttctgctg tcgtcaaagc ctgcgttttg gccccggatc 180

tctaccggct gctattgatc aacacgcta ctgccaaagg agagagcaaa attcagagtg 240

aagacaagca acgtgatgca gagggagaag atggtaacga tgatgaaggc gacgatga 298

<210> 1682

<211> 300

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<213> Glycine max

<223> Clone ID: 700555441H1

<400> 1682

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 ttaggaatgc atcccaaaga tctctagctt ctcacttgaa ttcacatgt tccatgggat 180
 acccatcttt gtcattcttt aactcaaggt acatgtctcc acacattcca agtccaagca 240
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<210> 1683
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<223> Clone ID: 700555442H1

<400> 1683

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 taccttcttg ccgtcaattc ccaagccgag agctctctt cacgccgcaa agttcgtcgc 180
 cggcggcgcg cacaactttc ggagactgtc gcgcaacctc attctctccg gaaacaaacg 240
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<210> 1684
 <211> 293
 <212> nucleic acid
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<223> Clone ID: 700555443H1

<400> 1684

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 tcaccgtccg cccaatcagc gtcttcttcg ccaccaccg cgccggattg gctctctaca 240
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<210> 1685
 <211> 258

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555444H1

<400> 1685

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gaagtttagt aatcagtaca aggcaaccat tggagcggat tttttaacca aagaagtgca 180
attcgaagat aggcttttca ccttacagat ttgggataca gctggccaga aagattccaa 240
agccttggag ttgctttc 258

<210> 1686

<211> 295

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555445H1

<400> 1686

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ttgaggttac tgacatttca ctggctgatt acattggagt tgcggcatcc aagcacgcca 180
catatgttcc tcacaccgcc ggaaggact ccgtaagcg gttcaggaag gcgcagtgcc 240
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<210> 1687

<211> 266

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555446H1

<400> 1687

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aaccagtctg ttaatctggt tgaagtcaat ggacattgtt ctaatcaagt tgattttctt 180
cgatttgagg tgagcccata cactggaagg atccacttgt atacttgcatt tttgggtact 240

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266

<210> 1688
<211> 231
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555447H1

<400> 1688

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ctccgcctaa attttctgat ccatttgaag ttaaagtaca caacaagaac aagactttgc 180
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<210> 1689
<211> 296
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555448H1

<400> 1689

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tagtagctcc agaagttgtg attcagatga tactctgtcc cagacttcaa ctgatgagaa 180
aaattctctt ataaacaagg atgagaatga aactagcaag acccctgtgg tttattcaga 240
acaatgctct attggtaggg atattaattc tactcgagtt gccatcttga gagata 296

<210> 1690
<211> 173
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555449H1

<400> 1690

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acccaatgg aagncatcaa gtgaattgca atcagaagan aatnaagtct ccaatgagan 120

aaataagaaa agaaagctgn aaacaccggc gcagttaaag ccttgaggga ttt 173

<210> 1691
<211> 101
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555450H1

<400> 1691

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<210> 1692
<211> 297
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555452H1

<400> 1692

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cccatacctc ctgctatctg cagtgggaagg cgtgaaaagt gtggaattga gaaggagaac 180
aactttaagc agcccggaga gagataccga tcttgggcac ctgacaggca agatagattt 240
aatcgccgat gggttgatgc tttatctgac ccacgggtca cccatgaaat ccgcagt 297

<210> 1693
<211> 297
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555453H1

<400> 1693

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ccctgataag ctctgcgacc aaatctccga tgctgtcctc gactntgnat cgaacaggac 180
ccagacagca aggttgctcg cgaaacatgc accaagacca acttggtcat ggtcttcgga 240

gagatcacca ccaaggccaa cgttgactac gagaagatcg tgcgtgacac ctgcagg 297

<210> 1694
 <211> 295
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555454H1
 <400> 1694

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 gnatgagaac gaagatgaag tgagggagat ataagtactt ctggttttta tgttctgtta 180
 tttatcttac tgttgagtgt gttattacct aatanataaa tttgggggtt atgatgtgag 240
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<210> 1695
 <211> 276
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555456H1
 <400> 1695

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 aacatcaaac acgactctcg cctcgaaggc ctcatcaaga tggcagatct cactattaat 180
 ctggtgcga ttgcatcccg cggattacaa cactcgccct ctcgacacca ttacagcaa 240
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<210> 1696
 <211> 296
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555457H1
 <400> 1696

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catggctgcc tccgtctcca ctgtcggagc tgtcaacaga gctcttttga acctgaatgg 120
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 tattgcctca aggggtcccca acagcaaggt ttccgggtgga agcttcaaga ttgttgctgt 240
 agaagagaag aaagagattg aagagaccca gcagaccgac aaggacagat ggaagg 296

<210> 1697
 <211> 292
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555460H1
 <400> 1697

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<210> 1698
 <211> 290
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555461H1
 <400> 1698

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 tcctgtctgt aaaattcctt tcantcgtcg agagggtngc cntgctccgc anatggacaa 180
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 aatgccctg tnactagctt atcanatgga gaaaaggnat gtgaggggtg 290

<210> 1699
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 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700555462H1

<400> 1699

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aaaactaggg ttcagtccag ctgagatagt aattgtgaac cctaataaga agacttccac 180
tggaatgaa gtagggtagc gtttggtttc aaatgcagcg gttcatcctc ttctcacaga 240
tgatgattac cctcaaacac gtggtgcttt caccagttac aatgtttggg ttac 294

<210> 1700

<211> 97

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555463H1

<400> 1700

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<210> 1701

<211> 299

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555465H1

<400> 1701

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ttgggaaagt tttcaagttc acacatgttc tggtgcctc cttcgccggt tcagttnnnn 120
nnnnnnnnnn nnnaagctac cggcgggcac cgtccacggt ggtgggagag cagaagaagg 180
ttattcccga gctacgtagg acggaatctg ggcgtctcgg ggagatggaa aagttctccc 240
actatgttgc aaggcaaagc ggggtgaaga tgctgatgag gttccagagc tatgcatat 299

<210> 1702

<211> 296

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555466H1

<400> 1702

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gtcgtctctc agtacatcac tgtccaaata atgcagtcac cacagcctaa tgatcccaac 120
atgaaaagtt ctcaagcctt gaccaatttc cttccattaa tgattgggta ctttgctctc 180
tcagttcctt ctgggtcttag cctttactgg ttaacaaata atatattgag catgcacaac 240
aagtatgggt tcnaaagtta ggangtgtaa aaatcctgtg angcaagtcc cagatg 296

<210> 1703

<211> 297

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555467H1

<400> 1703

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gaatcttctt tttttgatct ttagcttccc caactcactc ccaagaccaa tggatcatcc 240
aactcctgtg aaggggagag acagtggcca agttgaagggt ggcatcaatg gtttcgg 297

<210> 1704

<211> 295

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555468H1

<400> 1704

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ctcttaggtc ctctaccat caatccccct ccctaagcat cagccgaagc tccgtagatc 120
ttaggaatgc atcccaaaga tctctagctt ctcaattgaa ttcacatgt tccatgggat 180
acccatcttt gtcattctctt aactcaagggt acatgtctcc acacattcca agtccaagca 240
atgcttcagt aagctatatg gggtcatcca gtcacaca acatcctctc cgta 295

<210> 1705
 <211> 292
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700555469H1

 <400> 1705

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 ttaggccctt ctgtcttcgc aaccgttagc actcnnnnnn nnnnnnnnnn nnnnnnnnnn 180
 nnnnnnnnnn nnnnnctcat tcaagacagg gctgtctttg ctgcccctgc cnccatcatc 240
 accccaatgt gagagaggat atggcaaaag gatacgagca agtaattgaa ga 292

<210> 1706
 <211> 286
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700555470H1

 <400> 1706

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 aattttatca cattaattct tgatcttttt ccacatcata tcttcatttt tttgggtccac 180
 atgctgtagc ttttaggcaa taatggttcg atctgatcag atgagttgtg ttccccacag 240
 ctatgggcat tcaaaagttg gactaatcat ctacttcatt gagatt 286

<210> 1707
 <211> 295
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700555471H1

 <400> 1707

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 aaagatgggt cactccaaca tcatgcctcc aatgtcccc aaactctctc tcccggatca 120

taacattcca atcccaactt tgcaactccc ccttcgccaa aacgacatca ccgcagcgtc 180
gtctcctatc tgcgctgcat acgacaacta ccttcgtctc cctnagctca gagccctctg 240
ggcctccaag gacttcccca attggggcca acgagcccat cttaaagccc gctta 295

<210> 1708
<211> 281
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555473H1

<400> 1708

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aagtgggaaa tttgggtgat gatgttgaag tccttctcaa cttggaagta attggttaat 180
caagctgtgc ctgaattatn tcattaattg tgaatcttat ctntccctg tngntacac 240
aagttatctg ggttttaaat taagtntcca atncttgcca g 281

<210> 1709
<211> 294
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555474H1

<400> 1709

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ctattctaag actgtctcnc ctctctcatt catgtcccaa ctgtacgacg gaggacaggt 180
tgcgtaactg ocancaacct ttgcgcgcac ggtgggcgtg gtgctttggc cttctgaagg 240
tggtagccct tcagacttgc tctcttagct ggtggtngtt ctgctgtctt ctag 294

<210> 1710
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<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555476H1

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 ccctgatgaa cccatcatca gcaatgcac ttgcaccact aactgccttg caccctttgt 180
 caaggtcctt gatcagaaat tcggtatcat caagggcacc atgaccacca ctcatcctac 240
 accggcgacc aaaggttctc gacgcgagcc accgtgacct gagggcg 286

<210> 1711
 <211> 290
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555477H1

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 gccgcctact tccaacgctc tcaatttgaa gcacgttctt cgcccgcgtc gagtcgagcc 180
 tagccgaatc tttgtcaaat gcgccttcgc gtctgagccc gncagctacg gggtcggctc 240
 gagccgagcc gattggcaga gtcctgcgc catcttagcc agcaaggctc 290

<210> 1712
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555479H1

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<210> 1713
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 <212> nucleic acid
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 <223> Clone ID: 700555480H1

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 aattttatca cattaattct tgatcttttt ccacatcata tcttcatttt tttgggtccac 180
 atgctgtagc ttttaggcaa taatggttcg atctgatcag atgagttgtg ttccccacag 240
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<210> 1714
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 <212> nucleic acid
 <213> Glycine max
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<400> 1714
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<210> 1715
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 <212> nucleic acid
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 <223> Clone ID: 700555482H1

<400> 1715
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 ggtgtacggt aacctggt 138

<210> 1716
 <211> 291
 <212> nucleic acid
 <213> Glycine max
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<400> 1716

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gtctggacct ggggtttcag ctcccagttc atccttcttt gggagcagct tgaagaaggt  180
tattggctca aggggtcccca acacaaagat ttcctctgga agcttcaaga ttgttgctgt  240
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<210>      1717
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<212>      nucleic acid
<213>      Glycine max

<223>      Clone ID: 700555484H1

<400>      1717

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<210>      1718
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<223>      Clone ID: 700555485H1

<400>      1718

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gcagccacca ctccgttcgc tggctaccnn nnnnnnnnnn nnnnnnnnnn nnetgacctt  180
cacttacgtg agccttgggc taaaaggaaa cgctccaaac gaccgcgttt tgagacggag  240
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<210>      1719
<211>      282
<212>      nucleic acid
<213>      Glycine max

<223>      Clone ID: 700555487H1

<400>      1719

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 aagagaaaag atagtgcacac aacagtagag agacgagttt attgctctgc cgctgctcaa 180
 tcaccaccac cagnatggcc aggaacagca aangggcagn cttctgattt cnagacatgg 240
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<210> 1720
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555488H1
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 ccttagctaa tgcagtttcc aagacaaaca tacttnnncg ncgaagggtg tctatttgaa 240
 cttcctgata ccattaaaac aataaccaa gcatgtgaga aagcacggtc gaa 293

<210> 1721
 <211> 286
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555494H1
 <400> 1721

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 tcaattatca gaggggaagtg acttttgatc gatgctttta catttatgga ggtccagaac 180
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<210> 1722
 <211> 287

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555496H1

<400> 1722

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 aggtgatgga ggcgatgcac gccccatat acttcgagaa gtacgatgtg cacggggaca 240
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<210> 1723

<211> 282

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555502H1

<400> 1723

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 ccttcccga actncaangg cgtggnntnt atgacgnctt ntagggagct tcctcaaagt 240
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<210> 1724

<211> 284

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555503H1

<400> 1724

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 caagtccatg gctggnttcc ccaccaggaa gaccaacaat gacattacct ccattgctag 180
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ggagttaggt gcatggcggt gggagaagct gcaaccactg agactaagaa gagaagtgga 240
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<211> 282
<212> nucleic acid
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<223> Clone ID: 700555505H1

<400> 1726

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ccgacgcaga cgaccctccc ctctctgccg gatctcctcc tcacggccct ctccgtctgc 180
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cgattcctca aaatccccgc catgtccctc acaacgataa ca 282

<210> 1727
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<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555507H1

<400> 1727

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 gggaggaggc gaggagaagc gacaccagat gatgcagaac ctcttcggag atcaatcgga 180
 ggaggaggaa gagctcgacg tcgattccga gcacgaatcg aaccgcgaac aaaattnccc 240
 ctccgacgag ggggaggggg aggggtgtggg ggagcaggag gg 282

<210> 1728
 <211> 264
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700555508H1

<400> 1728

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 gaacagccac atccaggcaa gctgctcatg gaatgcacgg tagaggcatc catcgtaaca 180
 aaggaagatc aaacaatcaa gatgctgatg gttggcgaaa ganatctgtg gttgaagatt 240
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 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700555509H1

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 gaaaggaagg cttgcagagt ttgctgtgct gggagggggg catttctgct tgtagganat 180
 aattcaagag aggtccaagt tgactttcct gtaaactcgtt tattagctca ggatggtata 240
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 <213> Glycine max

<223> Clone ID: 700555510H1

<400> 1730

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 accacttgca gctaaaacat tgacctcctg tgatcatttg aaggaatgtg tagtcgtgaa 180
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<211> 282

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555511H1

<400> 1731

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 acgagctcgt tctcatggat ccccatggcc gttctcttct cactctccgc cgaaagaaac 240
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<210> 1732

<211> 250

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555512H1

<400> 1732

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 gacgtagaat cgtgtatacc ttgatttatt ctagttaata actcaatttt attgtttata 180
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 aatgtaagtg gtcattgcgt tttgggtgagg tagaagtgcc agcagtgatc attgcaaaaag 180
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 tgaccagcat tcccgtctctg ctatgcaggn nggcattgac aagctcgcng acnctggttg 240
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 ccagatggta tttttacctt ctctggtagt gctgggtctg aagaccatca gtatgagcta 240
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<213> Glycine max

<223> Clone ID: 700555521H1

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ggtatagatg gagaaaatac gggcagaaag tagtgaaggc caatccnaat ccaaggagtt 180
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<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555522H1

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ccacaagagg ggcattctggg ccatcaaggc caaaaacggc ggtgttttgc ccctccacga 180
tccaagccc aaacccgagg ccccgccca gaagccgcc aagttctacc cggccgatga 240
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<212> nucleic acid
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<223> Clone ID: 700555523H1

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<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555525H1

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<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555526H1

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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 70055527H1
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 <213> Glycine max
 <223> Clone ID: 70055528H1
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 <223> Clone ID: 70055529H1
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 <223> Clone ID: 700555537H1

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<210> 1752
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 <223> Clone ID: 700555538H1

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 <223> Clone ID: 700555539H1

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 <223> Clone ID: 700555540H1

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<223> Clone ID: 700555542H1

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ccgaaagtga agcattaggg gaaccggaat tagaaaaaag agaaacactt gaaatcatca 180
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gcaagtgtat ttttgagta ttgtattata tgaccaaata ttttagtggt ttaggactag 240
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<223> Clone ID: 700555544H1

<400> 1757

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Table 1. Demographic characteristics of the study population	
Age	
Mean (SD)	65.4 (10.2)
Range	45-85
Gender	
Male (%)	55.2
Female (%)	44.8
Marital status	
Married (%)	68.5
Single (%)	31.5
Education	
High school or above (%)	72.3
Below high school (%)	27.7
Occupation	
Retired (%)	45.1
Unemployed (%)	32.4
Other (%)	22.5
Income	
Monthly income (USD)	1,200
Range	500-2,500
Health status	
Good (%)	60.1
Fair (%)	39.9
Comorbidities	
Hypertension (%)	42.3
Diabetes (%)	35.7
Cholesterol (%)	28.9
Arthritis (%)	21.5
Other (%)	15.2
Medication	
On medication (%)	58.4
Not on medication (%)	41.6
Living arrangement	
Alone (%)	33.2
With family (%)	66.8
Study duration	
Mean (SD)	12.5 (3.2)
Range	6-18

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cttttaagat	taggaaggct	ctcaacccta	agagtgttc			279

gcagtttccc	gataacgagc	cagtatgttt	tttaaaaaat	aaattataac	atcattgtct	60
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637

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<211> 282

<212> nucleic acid

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<223> Clone ID: 700555548H1

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<211> 277

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555549H1

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 <223> Clone ID: 700555552H1
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 aagaaaagac tatcttaact tcgttcgttt ggaacaagag tttgtagaga atctctcgat 120

gatggcaaac agttgtgttt caatggacaa taataatatc ctgggtcttc tcaagcttcg 180
aattaaaaga ggcgttaatc ttgcaattcg cgatgctcgt accagcgatc cgtatgtcgt 240
cgtcaacatg ggtgatcaga agctgaagac tcg 273

<210> 1766
<211> 275
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555553H1

<400> 1766

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tcgccattac gaagacatac gcgatcttct gtgatattca gctcggattg aacctctctg 120
acatgatctc cgggtggtcc cccgtcgggt ccgtcgctc caagttcca aggatcggaa 180
tcctccctcg tgatgctaag gatgagtcga tgatgaagtg gtttgagggtg ccgggggttca 240
acatcattca cgcgataaac gcgtgggagg aggac 275

<210> 1767
<211> 163
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555555H1

<400> 1767

gtttcagatt cagaagtcaa tcccaaattc gcacctaat cctcacacac aactcagtta 60
catgtgacac tactagatt ttgtagtac tgtattatgt atcaatatta ttctgtacca 120
atcctcatgt aatattgcaa tctaatagtt gtgccattta aaa 163

<210> 1768
<211> 275
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555556H1

<400> 1768

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cccattttgg atttgggtgac aacatatttc agcttaataa aagaggctgg ataagaaggc 120
 aggtctattg gatttcaaaa cagatattac agttgggtgat ggaagatgca attgatgatt 180
 ggcttctgag acagattcat tggctccgga gagaggaaac tgtttcccaa gggattcggc 240
 gggccaaga tgcctgtgg cccgggtgta cattt 275

<210> 1769
 <211> 189
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 70055557H1
 <400> 1769

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 tattatacct cttccatctc cataacatcc acttgtgaaa aaaacccatt aatatatctc 120
 acacacacat gtatctctga gctccaatcc aatccaagac cacaccttgt cgcgtcggac 180
 gaaccttgg 189

<210> 1770
 <211> 272
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 70055558H1
 <400> 1770

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 ttgcttgata agggctaagc ttttcgcaca gcatgctcng aaggcttcta tctagaattt 120
 cntactactt ttctagtgga ccatttctga ggttttggat caaganagga tatgatccac 180
 gcaaagatct taattctcga atttatcana gaattgatta tcgagtacct gttccattac 240
 gaattactgt gatgctcatc agccaataaa tc 272

<210> 1771
 <211> 267
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 70055559H1

<210> 1774
 <211> 278
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700555562H1

 <400> 1774

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 gaccctgccc aacatcaggt cgctctcatt cttggtatct ggggaggcaa gggacaagga 120
 aaatctttcc aatgtgagct tgtctttgcc aagatgggaa tcaaccccat catgatgagt 180
 gctggagagt tggaaagtgg aaatgcagga gagccagcaa aactgatcag gcagagatac 240
 cgtgaagctg cagacatgat caagaaggga aagatgtg 278

<210> 1775
 <211> 279
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700555563H1

 <400> 1775

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 aattgttaat ataaaggcat tgaaaacagt gttggaagct tacctccctc aactcgact 180
 gattattttc ttggcttgtt gcccaagttg cttctgtttt tgtctaaatt tgaaggcatt 240
 ccaactgana gtcatgcagt taggggctgc atctggaaa 279

<210> 1776
 <211> 277
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700555564H1

 <400> 1776

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 aatgtctttt ctttaacccc aggttattgc tgaatatctt caaaaaatcg atccaaaatc 120
 agatggcgca aagagggatt gggttgctat ttatgatgaa tgtgcctctg tcttatatca 180

ggagattgat tacaccaagg aggctgctaa tgcagaattg tttgcaagta actttaagaa 240
catggattat gtgaaagttc ctacnatcta ctgggat 277

<210> 1777
<211> 256
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555565H1

<400> 1777

cgtagatagc cgatgtgctt gtnttaangt gtcagtnatt cctgttacct caanncagct 60
ttgtagtgan cagatataat ggctgtngaa aggtccggaa ttgnanana tgttacggaa 120
ttgnttggtg aannccatt agtatntctn aatanacttg cggatggntg tgttgcccgg 180
gtngctgcta nactggngtn gatggagcna tgctctagt tgaaggacag gnttgggtat 240
agtatgattg ctgatg 256

<210> 1778
<211> 276
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555566H1

<400> 1778

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gcaaacaagc tccgccagca agcaccagag ggnnnnnnnn nnnnnnnnnn nnnnnnnnat 120
gccaagtgt gacatatgcc agganatngt tggttatttc ttctgtttag aggatcgngc 180
tttgetatgt aggaattgtg atgtatctat acatacagca aatgcctgtg tctctgatca 240
tcaaaggttt ttgcttactg gtgtgagagt aggcct 276

<210> 1779
<211> 272
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555567H1

<400> 1779

ggtgagtcta gtcaatttct ttttaaactc tgcgatgcta aatttagcgg tgtcactcac 60
 ctgaatttnt ctgttttgtg atctttgggg cttttatcaa tgccacatct ctttctttct 120
 ctcttgatct cattttgtga tctttggggc ctttatcaat gccacaccta aatttagcaa 180
 tgtcactcac ctgaaattaa gtgtgtattc tttcttttgc gaattttttn tcagagttga 240
 tttgacgtaa cccaaaatcg tgtttaatgt tt 272

<210> 1780
 <211> 273
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700555568H1

<400> 1780

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 ttcctccatg aattcaattt ctttaggttc cttcatcctc acaccatgca agttccgccc 120
 ttttcttcaa accaaacacc aacctatatt ccacacactc tccccaatct cccctgacac 180
 aaaaaccacac ttttcttcga gccacagact cgaacatcga cgccccatt tccctccccg 240
 agggcgcgtc cttcgtttcc atcccagaaa tca 273

<210> 1781
 <211> 272
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700555569H1

<400> 1781

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 ctccctccct cagcaaccgc caattcctga accctaagct agcgccatgg ctgtcgtttc 120
 gcgaagtgcg acgacctata cgcgccacta cttaatacga cagagtttg ataggaaaac 180
 gaaaacctgc gttgccaata atagtttgtg ttactctgct nannaggctc ctccaccgca 240
 gaggattgtt ggtggccgta gagtgattgt tg 272

<210> 1782
 <211> 272

<212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700555570H1

<400> 1782

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 tgggtggagaa acacgggccc aggaactggt ctctgatcag caagtccatc ccgggccggt 180
 ccggcaagtc ctgcaggctc cggtggtgca accagctgtc cccccagggtg gagcaccggg 240
 ccttcacggc cgaagaggac gacaccataa tt 272

<210> 1783
 <211> 271
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700555571H1

<400> 1783

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 ccccgtagacc accagcgctc gcgttcggtt tcggctggac aatttggggc cgcaaccggg 120
 ttcgaggaag agggctaaga gaaagggtag aggaatatcc gcagggcaag gggcaagttg 180
 tggttttggg atgagaggtc agaaatctcg atctggacct ggcgtttagga agggtttcga 240
 aggtggccag atgccgcttt atcgccgaat c 271

<210> 1784
 <211> 275
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700555572H1

<400> 1784

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 caatggattc tagagaagca atgaatcaag ttacaaatac agtcacgctg ttaaccataa 120
 aggtcatgct gatatttcat ccagggatag atttgcaagg agtaatggta ttcccatttc 180
 tataagatat aagaagttgg gcaacgagga aataagcatg caaggagatc accaccaaag 240

275

<400> 1785

<400>	1786
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<400> 1787

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gttcgcttca caagcttcga atccaattcc tcagtaacat ctgcanaagt cttctccttc 120
 accatgccac ncnaagcctt tagactatgg gtcaataaat gaaaacgtga agaagagtca 180
 atatgctgtc agaggtgaat tataccttcg agcttctgag cttcagaaag agggcaaaaa 240
 gattatattg actaatgttg gcaacccaca tg 272

<210> 1788
 <211> 273
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555576H1
 <400> 1788

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 acgtggtact tctgaacgtg attttcaaca tcctcaacaa gaagatctac aattacttcc 120
 cctatccata cttcgtatcg gtaatccatt tattcgtggg agtggcgtac tgtttggtga 180
 gctgggcccgt gggccttcca aagcgtgctc ctatagactc caacctactg aagttgctca 240
 ttccagtggc tgtgtgtcat gcattaggcc atg 273

<210> 1789
 <211> 273
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555577H1
 <400> 1789

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 gtctgctgtt atntacaagg attgggtttt caccgatcaa gcattgccta atgatcttgt 120
 caagagagga gttgctgtta aggatccatc tgctcccat ggagttcgac ttttgatcga 180
 ggactatcct tatgcntctg atgggctaga gatatgggat gctatcaagt cttgggtgga 240
 agaatatgtc tcattctact acaagtcaga tgg 273

<210> 1790
 <211> 275
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700555578H1

<400> 1790

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caaaccaatc tttaaaatga gggggggcctt gtggcaactt gggcaatcga tcactcgccg 120
tcttgcccat ggagataaga aggctgttgc tcgtcgatgt tttgcctcag aagctgagct 180
gaaaaagaca gtgtttcatg acttccatgt tgctcatggt gggaagatgg ttccatttgc 240
tgggtggagc atgccaatcc aatacaagga ctcaa 275

<210> 1791

<211> 275

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555579H1

<400> 1791

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gtacagaggt agtgaaaaag ccattctact atttgatcag ggttcccaga tatgatgatg 120
atgaaaacat aaaagagaag ataaaaaacg ctcttcacca agtagaggag aagactaaaa 180
ttcgagatgc tattcgaatc gaaagccaga ctataaaggc cagttgtaag gatttcgacc 240
aagagttagg gtgcaatagc agcccataga gtgnt 275

<210> 1792

<211> 273

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555580H1

<400> 1792

cttgttggtc atgggttcga ntccggaac agcctctttg catatgcaag ggtaaggctg 60
cgtataacat ccttccccca taccttcgca tagcgaagag cctctgggca tggggtagca 120
agtttttatc aagcccagta gcatcttgta atctatgtag ctgaccttac cataatggta 180
gatgctattg ttgttgtagc tggtcagaag ttttaagtca ttaattgant ggaatttgat 240
tttttacatc tatttgcaga tacatcttgg cag 273

<210> 1793
 <211> 253
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700555581H1

 <400> 1793

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 ctgtttggan caacantccc tctttaaccg ttggagctag aggtccaatt ctgcttgang 180
 attannatct tgnngngaag ctngcaaact ttgacaggga acgtntccca gaacgtgttg 240
 tccatncnag ggg 253

<210> 1794
 <211> 269
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700555582H1

 <400> 1794

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 caaagggtnnt ngaatatctg gaaggaaaag atttcacatc tgaanggaan gattctgtga 180
 aaaagtntat gttgtgagga tcattnctgc ttatagtcan tggtcctttc atgantacat 240
 gctgctntgt attgatagtg tgtcattgt 269

<210> 1795
 <211> 268
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700555583H1

 <400> 1795

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tttttatagt aatagtataa antgaaggtt cttcacattt cacattatta gtttcggact 180
 aaaaactaag tatcnattan aatcggaata tggtaaattg gnttcttaga attcataaag 240
 gagattttat ntttctagan ttcnncna 268

<210> 1796
 <211> 270
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555584H1
 <400> 1796

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 acagaagcat gnggtggaag tgatgggtcc accggtggac ttcaacttcg acagcaactg 120
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 cttcttcttc agcgccccca ccagccccac acgtggcacc tcctccttct nccacgactc 240
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<210> 1797
 <211> 271
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555585H1
 <400> 1797

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 ttccgagaaa atccgaagaa ggcgggcat ggtttccccg gaaaacagca attggctggt 120
 cgattaccg ctgatcgacg acgttattcc cgtcggcgac gcctcctttt ccgtctcgcc 180
 tccgccttct cctggcccc acctcccgcc aatgtcagtg ttgaaattga tgcttcgctt 240
 ggggattctg atggcccaa agatactgct t 271

<210> 1798
 <211> 271
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555586H1

<400> 1798

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gaaggatgtc tctctctctg ctttcaacttc tcagcgcgatgc ttcaaagcgc ttccaaggag 120
aataatccgt tgtgctgtgg cggcgccctca gcgccaacct tccaccactg gatcagtgag 180
gactgcaatg accatgactg agaagatact ggccagagct tctgagaagg tacagctgac 240
ccctggcgat aatgtttggg tcaatgttga t 271

<210> 1799

<211> 217

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555587H1

<400> 1799

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tgccactggt ggcaagaaaa aggcttgag anagaagaga aagtntgagc ttgggcgtca 120
ggcagcaaac accaagttat caagcaaca gacaatcagg aggattcgtg ttagaggtgg 180
caatgttaaa tggagggctt gaggctggat actngca 217

<210> 1800

<211> 272

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555588H1

<400> 1800

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cttgtagac atnaatgggc agatttatgc agcgcaggga agngcttta atgccgttgc 120
atccccgaat gtcaaagtta tagtagtggg aaacccttgc aatacaaatg catfaatatg 180
cttgaagaat gctcctaaca ttcttgcaaa annttttcat gctttaactc gtttagatga 240
gaacagagca aaatgtcagc tagccctcaa gg 272

<210> 1801

<211> 270

<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555589H1

<400> 1801

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accacatata atccaatttt catcgtcatt gatgcacact taccacacc ttctcttttt 120
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atcgtaaaac tcaactctgca atcatcgatt ttgttttctt gtgatttagg gtttgattct 240
gatcgaaacc cgcgccatgg ccatgttcga 270

<210> 1802
<211> 269
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555590H1

<400> 1802

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agcattcccg ctctgctatg caggccggca ttgacaagct cgccgacgct gttgggtca 180
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acgatgtgt caccattgct cgcgcaatc 269

<210> 1803
<211> 271
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555591H1

<400> 1803

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gggcaagtac catgatgagc ttatcgcaa tgcgcgtac attggcactc ctggaaagg 120
tattcttgct gctgatgagt caacaggac aattggcaag cgtttggcca gcatcagtgt 180
agagaacatt gaatccaaca ggcgagctct tagggagctg cttttcactg ctctggtgt 240

tcttcaatat ctcagtgggtg tcatacctctt t

271

<210> 1804

<211> 270

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555592H1

<400> 1804

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gagaaagcgc gnnnnnnnnnn nnnnnnnnnnn nnnnngacag tgagaagaga gagagaagcg 120
ctcttctccg taccgtttct agagagagaa actgatggcc ggagttaatc cgaacggcgt 180
cgcgattttc cggcgactcc aacgcacggc ggacagttca ttcagtacaa catattcggn 240
aacctcttcg aggttacggc gaataccgtc 270

<210> 1805

<211> 274

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555593H1

<400> 1805

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acggatcgac gatgaagacg accttctgat ccgtcaagtg gtgccggatg cggaggacca 180
ccacctgctc aacgcggagc accacttctc cgccttcaag acaaagttcg gcaagaccta 240
cgccacgcag gaggagcacg accaccgctt ccgt 274

<210> 1806

<211> 274

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555594H1

<400> 1806

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cacncaanaa aanacacnga atcataactca tagtcacaca cacagcttag ttncgtngta 120
 ttntatgtgt ccttnctcaa ttctcatcat atatctgtnc aagtaccatt atcnttcnat 180
 gttgagtgtc ggcatttntt gagttttctca ctaccacttg tacnanttnt ctgatacatg 240
 catatatata cgtccagata tacagtctat tcac 274

<210> 1807
 <211> 272
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700555595H1

<400> 1807

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 ctcttctctt tctcttcttc tccaccctcc acatagcttc caccctctca acccccacca 120
 acttcatcaa gtctctctgc agcaccaccc agtaccacgc cctctgcac cagtcctctt 180
 ccgtctacgc tccaccatcc agcaagaccc ccacgagctc gtccagacag ccctctccct 240
 ctccctcaac aaaccgaggc aacaaaactt gt 272

<210> 1808
 <211> 274
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700555596H1

<400> 1808

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 cagcaatggc taatgctata actttgaaga agttgatcag gaaggggata cccccagttc 180
 ttaggcctaa gatttggttt tccttgctcag gggcagccaa gaaaaagtcc accgtgcctg 240
 acagttatta tgatgatttg accaaagcag tggg 274

<210> 1809
 <211> 286
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700555601H1

<400> 1809

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gctttatttc aattttacac aaatattttc atactagaaa tccgcttcac ngaattcttg 180
tgacatctcc tttttgtcac aagcatatgt atnttttaaat ttattacaca cccgaattat 240
taacataaac actataagtt aagatctgtn tttcaatatc atggaa 286

<210> 1810

<211> 283

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555602H1

<400> 1810

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gtttggatgg tcttattggc agaagatgct aggtggtgtt catcaatatt ctgaaaggta 180
aaacgatttt ggtttttaat gataatataa ccatgaatct aacatcagat attgaacgct 240
acacatcaaa ataaatcgag ccaacgcatt taattgtaag tgt 283

<210> 1811

<211> 275

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555603H1

<400> 1811

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aacggcctcg catgagcatg caagtnaaga agcaaaggta tctgatcagt ctgaacaagc 120
tgaagctgcg gatcaaacca aagaatcaga tgtagagagt gaatgtgatc tgtccaggga 180
tgatttgata aagcttggtg ctgagaagga acaacttttg aagttgaagc acaaggagat 240
gagaaaatgc aggataaagt tctgcgaact tatgc 275

<210> 1812
 <211> 279
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700555604H1

 <400> 1812
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 tttgactcat ctaaagaact aggagaaggg ggctttggaa cagtgtattt tggcaaactg 180
 cgggatgggc gttctgttgc agtgaagagg ttgtatgaga acaactttaa gagagttgca 240
 cagttatgaa tgaaattaaa atcctagcaa atttggatc 279

<210> 1813
 <211> 280
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700555605H1

 <400> 1813
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 aagagtgtgt ggtgtcgggg atgaacatac attgaggcaa aagtgtttct tttcttttct 120
 tttcttttct gcgcagttat tattatttta ggactgcaac tgcattgagtt ggacaaaacc 180
 gagcaagatt ggtagcttga agttctacaa gcttcagcaa ctatggctat tgctacggcc 240
 accctctctc tccatttcgc caaaattccc attcgtcaaa 280

<210> 1814
 <211> 279
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700555606H1

 <400> 1814
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tctaggttcc aggctatgcc gattttgtag tctgagttga ttgattcaca tcaccgagct 180
 attgtcacag acacaagnnt atgaaacatt gttcaatatc ttttgatttc cgacaaatgt 240
 gagtagcttc tgatttcacc tcatttatgc attcctttt 279

<210> 1815
 <211> 278
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555607H1
 <400> 1815

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 tcaagattat attcttgtca ggaagaacac tggacaaaca ggccgtaaca gaagcaaact 120
 taaataaggc tggtaccac acatgggaaa aattaattct caaggatcca caagatcctt 180
 tccactccaa atgcagtttc atacaaaaca gcagcgagag agaaactgta agggcagggg 240
 tacaacntgt tggggatcat ggagaccatt ggacgact 278

<210> 1816
 <211> 280
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555608H1
 <400> 1816

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 gatcaggttt tccgattcgt ccggcgatct ctctctccat tcgcatcga tcaccggttg 120
 taggttttgg ggcacagaga ccgaggtcgc cgccatgtca atgtcggatt ccgattcctc 180
 ctctctctct tatggcgctg aatacaagag tctcaaaca gttagccgcg accgattatt 240
 acatgaaatg cttaggtcag cgaaaacagg agattcaaaa 280

<210> 1817
 <211> 278
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555610H1

<400> 1817

atnannaatn gcaanttcan ggagacanat agaatacacg ataacggaan cattgagntc 60
atctnccctt ttatntntng gntannagag atgatatggn ntagcattag cttctgcaa 120
tgangaagac accagcccc agtttgntc agtctaaccn aaganaaang attggttgat 180
tccaagntag aggtgcagcc aanggnacac agagtcacag tgttcagaac cattctgctc 240
tgactatttc aagtcttcct tcaagaantn tttnnacat 278

<210> 1818

<211> 275

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555611H1

<400> 1818

tgttaatcat tgtctttatt gtcttactat atgatgttg ccaggatttt ttatctgaca 60
tacatgggca gaaattgttt ctactcttc ataatgatgg taaactagcc agcttcgagg 120
attcatcagg taaagtatat gatcttgtaa gctattctgc tccggagcca gacgaaacag 180
tttttggtcc ctctacagaa ccaaaaatag gtatgcatct ataggtatta tttttgttt 240
aatcttctct attactatta tatttatata aagaa 275

<210> 1819

<211> 277

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555612H1

<400> 1819

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gtatagaatc aaaatgggag ggcaagaaat atcaccacta aacgacaccg gtttggtcag 120
gaantgggcc ggtgacgaag aagattattt aatcaaaca aatccacaga ataatgatct 180
ttcaagcaac acggatggta agatgaacat aaccgtgaat cctgattacg tggcacccaa 240
ggactctaca gaacagcgcg taacatgggc acaaacg 277

<210> 1820
<211> 276
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555613H1

<400> 1820

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tcatccatgg cctgtaatgc cctctagtct gtcactgagc atcttggact ctaatacaaa 120
aggtccgcac atggtggtga tacaacttac aaagctcgag ggaatttgag gtacagtgca 180
tttggatgaat accctgcact gcatggatcat aaagttgagc attcacatgg aaacttgatg 240
cacccccacc tgcactccta actcaatatc agagtc 276

<210> 1821
<211> 278
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555614H1

<400> 1821

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cttctatttc gagggtaaatt ctagagtga cccagagaa cctttgatag tgtcatatgc 120
atgatcagtt ctgctgaaaa gactggagaa tcagagttag aaatgacctt ttgctgctag 180
atgtggtctg aaactggagt tggcaacatc cctgtctgtt tgattcaatt tataggagag 240
caataccgtt gcatctttga gagagaccag aagttgtg 278

<210> 1822
<211> 278
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555615H1

<400> 1822

caacctggtc ttactgtgtg gtgactgtgc tctgctctca tctcattcat attcatttca 60
atggcaactc aaggtcaagt cattacctgc aaagctgcgg tggcctggga acccaacaag 120
cccttaaccg tccaagacgt tcaggttgct ccgcctcagg ccggcgaggt ccgtgtccaa 180

atcctcttca cgcctctctg ccacaccgat gcttacactt ggggcggcaa ggatcccgaa 240
gtctttcccc tgtattctcg gccacgaagc tgcaggga 278

<210> 1823
<211> 273
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555616H1

<400> 1823

ttacattttc cttctagaaa aggccatgca tgatattggc catgaggatg acttggtgat 60
agagcttgcc aatgaagtga agaaagtact tggagtggga aatgtagtac caaaggagaa 120
gaaacaggtt ggagcagcac aacttccaca cctcctcat gtgccaatcc ctaccctnnc 180
aacngctccc gctgccagaa cctattgctt tggatagctg acgcggaaac tgacgctgat 240
tcggcaacta aactgattta ctgcggaccc tac 273

<210> 1824
<211> 280
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555617H1

<400> 1824

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acgacgggct gaagctctcc aagcgcatat acttcgtgaa ggacagggcg gtgtccccgc 120
ccaagcctcc gccgccgatg gcgcgctggg ccaccgcgtt cctcccctcg gcgccgatgg 180
tctacgcggt gatctccgat ccagggatcg tggacaaccc cgacatctcg agctaccaac 240
cgcacggtac ggaaggtgtg atcctccagc gctgattccg 280

<210> 1825
<211> 273
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555618H1

<400> 1825

6626160

ccgcaaccct gacactttga agaaacttaa tgaagctgaa aaggcgaaga cagaactaga 60
acagcaagaa tattttgatc caaagttgcg ctgatgatga gagagaaaaa ggaaatgaat 120
tcttcaagca gcagaagtat cctgatgctg tgaagcatta cacagagtct atacgaagaa 180
atccaaaaga tcctagggct tatagtaaca gagcagcatg ctacactaaa ttggggggcat 240
gcctgaaggg tttaaaggatn cagagaagtg cat 273

<210> 1826
<211> 279
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555619H1

<400> 1826

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actttctgat gcaacacttt tgagggacag aaacagccta tcaaatcaag caacagccag 120
cgttcctctt ggttctggaa acatggtttc tagcaatgtg gcccttggat cagtctcttc 180
agcctctgaa atagctaaaa ggaacataat gggagctgat gatacgnttg gaagtagtgg 240
gatgggtagc ctcttgtatc cccgctaagt aatagattg 279

<210> 1827
<211> 276
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555620H1

<400> 1827

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gatgggaggt ggcaaggaca agcatcatga tnaatctgac aaaggaattt tttcacacct 120
tgctcatggg gtagctgggt cagcacatgg tggacatggg taccacactg gggctcacc 180
accaccacct ggggcatacc ctccacaaca aggatatacct ccagctgggt atcctccaca 240
acagggatc ctccagctgg gtaccctcca catcaa 276

<210> 1828
<211> 275

<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555621H1

<400> 1828

agagagagag atggggctaa gaagtaaatt aagaatgtca gcgtcagtgg tgcagcaggg 60
gatgaaggaa ataagaagga gcgtgacgta catgcctcga ccgggggacg gtgcgccgcg 120
gggggtgacg ctgataccgg gggacggaat tgggcctctg gtgactcatg cgggtggagca 180
ggtgatggag gcgatgcacg ccccatata cttcgagaag tacgatgtgc acggggacat 240
gaggcgtgtg ccggaggagg tgctggattc gatac 275

<210> 1829
<211> 247
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555622H1

<400> 1829

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cagcaagagc aaggaccaac aaccgcaaga agaccaccac cccccctc atggcggagg 120
aggaggcgcc gccaccagtg tccttaactt caatttcaac aagctcaaca agcccaggcc 180
cgacaggccc tccaagnct tcgacgacgt cgtcagaaac tcccctcgct gcagccgcga 240
tttagtt 247

<210> 1830
<211> 257
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555623H1

<400> 1830

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gaancctgac ctccgctctc tctttcttct ctctctcttg tccatcgctt ccgccaatgt 120
cttcttcgaa gagcgtttcg atgacgggtg ggaaaatcga tgggttaaata cagattggaa 180
aaaagatgag aacgtggctg gggagtggaa ccacacctct ggtaatggaa tggagacgct 240

aatgacaaag gtattca

257

<210> 1831
<211> 274
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555624H1

<400> 1831

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gttttttctg cgatcatttt ccattgggtg gaagaaagtc tcaaccttta gtcgaaagag 120
caaggatctg agtgagtgag cgatcatgtg tgggtggtgcg attatctccg acttcattcc 180
agcgggtccc gccggcgggg cgcacgcggtg accgccgaca tcctgtggcc gaatttgagg 240
agcggttctc gaagtcgctg ctggacgatg attt 274

<210> 1832
<211> 273
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555625H1

<400> 1832

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tcttgaggcc ctggatgata tgtattacct atatacaggg attgcacggg aaagtgaaca 120
gagaccagaa aaattatctt taaagaagca attgaaactg aaatgcctag aacaaaatcc 180
caatcctagc caaaatcaag ttctcgtag atatggagtg ggttctgatg tgggacagac 240
atgacagtgt tgaattatag ccaatcaagt aga 273

<210> 1833
<211> 272
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555627H1

<400> 1833

gaatattgag gggatgcctt tagtgcaatt ngttggagat gatctgttta ctagtgccac 60

<223> Clone ID: 700555630H1

<400> 1836

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tctggaatgg gtaccttgct tatctcaaag atcagagaag agtatccgga taggatgatg 120
ttgacattct cagtgttccc gtctccaaag gtctctgaca ccgtgggtga accctacaat 180
gccactctct ctgttcatca actagttgag aatgcggatg aatgcatggt ccttgataac 240
gggcactcta tgatatctgt ttccgtacac tcaa 274

<210> 1837

<211> 266

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555631H1

<400> 1837

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aagcaatctt aagccagtga cattggagct tggagggaaa tcgcctttca taatatgtga 120
ggatgctgat gttgacaagg ctgttgaact gcacactttg ctctgttctt taatcagggg 180
caatgttgct gtgccggctc acgtaccttt gtacatgagc gtgtctatga tggttcttgg 240
agaaatcaaa gaaacgggct ttgaga 266

<210> 1838

<211> 133

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555632H1

<400> 1838

aaaatttgta atccgagtc ctccagcagc atgccaggtc tcgtatcgga cgcccaaccc 60
ctcggaatct ccgtcccga cacaccagg cagtcccaga gaacccttc tccactcncc 120
aaaaaaccac cca 133

<210> 1839

<211> 280

<212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555633H1
 <400> 1839
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 ttagcagggt cagagtggga ganttggtgg gagttggact cctcgtagggt tgctgcaaaa 120
 actgccgcca tgccaacaag acattgagaa ttactgcac aagaagatct ggtcttataa 180
 tgatgtttat gtcgatggaa aaccacgca gggtaggttt gctgaaanct tggtaggtga 240
 gcaaagtgtg tggtagaat tccagagggt ttggcgccag 280

<210> 1840
 <211> 278
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555634H1
 <400> 1840
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 ccgcatttcc agcgggtcta nggtgaacca atttggcgtt cntgctttgc anatgagaca 180
 ggaatgttgg cctgngagtt aggtccatgg ctanggaaga acaaccaagt gngcctgcaa 240
 cccagttaca ccgccaccat cagtagaanc caagccac 278

<210> 1841
 <211> 121
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555636H1
 <400> 1841
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 cttgttgaaa tctgggtaag ttgtatcaa tataattggc ttatcattcg ctttctgctg 120
 t 121

<210> 1842
 <211> 275
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700555637H1

<400> 1842

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 ctctctcttc tactctatat aaacacactc acacaccact cttccacatc tcactttcca 120
 atttccctca tggagtttca aaaacctcta tggctattct tgcttctcct cactctcctc 180
 tcaagctccc aagccaacaa attcaacgtt ggtggaagca aaggggtgggt tccaaaccct 240
 tcgagagtta caacaattgg gctggaagaa accga 275

<210> 1843
 <211> 274
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700555639H1

<400> 1843

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 tctcaatggc cgataatgag caaccgaata acgaggaggc aagtcctctt ctccaccagc 120
 ncctcccnnn nccnnatccg aaccaccaac gccacctgag actcccgagt ttctcctcgg 180
 ctggaccgct gatgggctcc ctctngccca cgccagcgtc gtgggccagc ccatgggncg 240
 gcncccttga actcntcnat ctgcgnntgt ntgc 274

<210> 1844
 <211> 272
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700555641H1

<400> 1844

gangnagang agcgtttcac atttcgcggt tctgtcgtcg tgtngtnngc cacgcttggc 60
 cccttctact gtngcngngt tcaacccttc gttctcgcac ccggtgtngt actantctca 120
 ctgtacttct tcagagactc ccactccaac ctncgggaga aacgagtagt gtcggggggt 180

cagcccacgg gctcaattca cctcggaaac nattttggcg ccatcaagaa ntgggntgcc 240
ttnagaatgt gtanganaca cnnngncntna tt 272

<210> 1845
<211> 271
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555642H1

<400> 1845

ttcattttat tttaatcctt ttcaatgaaa gtcattgcgg agtgatagaa gagcgagatt 60
cacttggaag tcttctgaag agcttccgag ttgcggaatg agagaactcg gcattgactc 120
agagacgggtt cggttatattt tcgtggccga tggtttatgc tagattgaaa taaatttgca 180
ttgactatgg gtgtctctgg gaagtggatt aaagcattgg ttggtctaaa gaaatcaaaa 240
agccagggtc ttctgagaag gatggaaatg t 271

<210> 1846
<211> 270
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555643H1

<400> 1846

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ataacacctt gacctagagc ntgtgggtatg atggatcaa tatcaagaag ggttgagacc 120
gtacccttaa atttgatgaa gcgtgtgatt cactgtttta ttttgagtg ccttcgatag 180
ctctcaaatg tgcctgtggc ttgtagttgt gggcgtggca ttagcatttg catgtaccat 240
tattgaagca agcgcaaggt ccttaccctt 270

<210> 1847
<211> 273
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555644H1

<400> 1847

cagaggattc gctccaaccc ctatcgagta aggtattatc tgtcaattta cattcgaaag 60
 ggtaggcta ttgaatttta aataattaca gataaaataa tcgatagctt tgattttaaa 120
 aattaatcat aatcatcggg taggttgcaa cataatactt aattcgctta attttttaac 180
 tgcgcctcag agtattcata acatattcta ttaaattaat aagctgggtga tgtaattaat 240
 attaatatgt agttttggca atcttattgg cag 273

<210> 1848
 <211> 272
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700555645H1

<400> 1848

ctacgcttca cttttccgta ataaaccctt caaaagcgaa aggnntttctc gtttttggac 60
 cttatctctc tttctaaggt tcgattctgc gtactttggg aggaacagac acacatgaag 120
 gattcgaatt cggatctgtt tgaccgggtc atggcgatgg agtccgagtg gtctcgcggc 180
 ggcaccacct ccgatgccga tttcgccttc gccttcaacg acagcaactt ctccgacagg 240
 ttctccggat cgagatcatg cagacccccg tc 272

<210> 1849
 <211> 274
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700555647H1

<400> 1849

agctgatgtg ccatttataa gttgttctgc tagtgagttt gtagagttat atgttggtat 60
 ggggtgcttc cgtgtgagan atctctttgc aagggcaaag aaagaagcac catccataat 120
 atttattgat gagatagatg ctgtggctaa aagtcgtgat ggtaaatttc gcattgtcag 180
 caatgatgaa cgggaacaaa ccttgaacca gctgctcact gagatggatg gttttnacac 240
 agttctgctg tcattgttct tggagcaact aatc 274

<210> 1850
 <211> 173

<212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555648H1
 <400> 1850
 cacctogtag tctccgcagt tggggtttag agacaactgc aactccgtta ataacaacac 60
 aacactcaaa acccaaaaca ctttatactt tcttcacttc gaactcgcnc ttcgtttccc 120
 tctctatctc tccgccacgc gccaccatgt cagtctctan tccgtcnagn ttg 173

<210> 1851
 <211> 276
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555649H1
 <400> 1851
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 ggttttggat tccttgggac aaccactggc cccgaatcct ggggaaattg tgagtaaata 120
 ccctttttgt ctatcaattt gtaagcatcg atcactccaa aatttacaat atatttaccg 180
 taatccttaa ttttgcaaga gttcattttt ttaagaataa gaaatgtag tagcacattc 240
 ttttaacacac ttttttaaaa tacaattaga aattac 276

<210> 1852
 <211> 270
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555652H1
 <400> 1852
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 ataagaagaa gggattgcgt tcgcnncttt tntcggttcg ncctatgctg gtcctatgaa 180
 gattatcaat aacatcttta actcagatct ngtgtccagt cntcggaggg aggacgantg 240
 cagcacantc gtgaaaatgn cgaattgggtg 270

<210> 1853
 <211> 205
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555653H1
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 agtgaacgag gggcaccctg acaagctctg tgaccagatc tccgatgctg tgctcgatgc 120
 atgcttggag caggaccctg acagcaaggt tgcctgtgaa acctgcacca agccaacatg 180
 gtgatggttt tcggagagat caca 205

<210> 1854
 <211> 271
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555654H1
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 gatgtggttg tccgacttgg tgtgttaccg tcgatttggc cataatgaga ttgatgaacc 120
 atctttcact cagcctaaaa tgtacaaggt aatccgaagc catccatcaa ctcttgagat 180
 ctatgagaag aagcttttgg aatcagggga gttgacacaa gaagaaattg ataggaacac 240
 aagaaggcca catcaattct aaatgaagaa t 271

<210> 1855
 <211> 270
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555655H1
 <400> 1855
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 ataacacctt gacctagagc ntgtggtatg atggtatcaa tatcaagaag ggttggagcc 120
 gtacccttaa atttgatgaa gcgtgtgatt cactgtttaa ttttggagtg ccttcgatag 180
 ctctcaaatg tgcctgtggc ttgtagttgt gggcgtggca ttagcatttg catgtaccat 240

tattgaagca agcgcaaggt ccttaccctt

270

<210> 1856
<211> 272
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555656H1

<400> 1856

ccactcggga caagcatctg ctanaatgtc atgaggttga aagaacttat gangtgaagg 60
ttttgaatca caatgctgct cttcaactgc ttacttggaa tgcttttaaa agagagaaaa 120
ttgatccaag ttatgaggac gtcttgaatc gtgtagtaac ttatgcttct ggccttccat 180
tggctttgga aatcataggt tccaatatgt ttggaaaann tgtagcngga tnngaatacgc 240
ggtggaacat tataaaagaa ttcccaacga tg 272

<210> 1857
<211> 270
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555657H1

<400> 1857

agaattccca gactgcaatg cacaacacta actttggtgc gtccataccc tctactgcat 60
ttggagcaac tgtggcagga caggggatac gtgctggaca acctgatcaa caaccaaaga 120
actcagtgtt ctcaaagca ctctctagtc ctattcgacg cagccttcag ccatatcatt 180
tggcacaggg gagctttcct tcatgtaata tcatgtcttc aggaaatgga acccggaata 240
gtgacatgac ttatcctaata ggccagaaca 270

<210> 1858
<211> 269
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555658H1

<400> 1858

tgactgttta gaccctttta ggagtgggtg tottatattc atcgggtggt gtaataaaaag 60

tcttgaggcc ctggatgata tgtattacct atatacaggg attgcacggg aaagtgaaca 120
gagaccagaa aaattatctt tanagaagca attgaaactg aaatgcctag aacaaaatcc 180
caatcctagc caaaatcaag ttctcgtag atntggagtg ggttctgatg tgggacgatc 240
atgacagtgt tgaattatag ccaatcaag 269

<210> 1859
<211> 272
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700555659H1
<400> 1859

atttggtttc acacacacag aagaagcaaa aagagagaga agagaaacac acaaacacaa 60
acagaagcat ggaggtggaa gtgatggttc caccggtgga cttcaacttc gacagcaact 120
gctcctcccc cttcatcacc gccccttcca gcccctaatt cttcgcttcc aacaaaccaa 180
acttcttctt cagcgcccc accagcccca cacgtggcac ctctccttc ttccaagatc 240
ccctcctct tctctgttc ttcccatga ag 272

<210> 1860
<211> 270
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700555661H1
<400> 1860

agtcggtgta atttacattt atccattttt tgaaccttcc cttcccaccc cagaactttc 60
aaatttcaac aaaatcgag acatggcttc tgcggtgccc gcgacggggc gagagttgtc 120
gaatcctcca ttggacggca tcaccaatct togattctcc aatcacagcg atcatctcct 180
tgtgtcctca tgggacaaga gcgtgaggtt gtatgatgcc agtgccaatg tcttgaagga 240
gagtttatgc acgctggtcc cgtcctcgat 270

<210> 1861
<211> 274
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555662H1

<400> 1861

cctatctttct ctcttgtctt gattccattc aatttaaacc tccagggcgt ggcaagtttc 60
aaccttttttc gagcaccat taacattaac atggccattc cctaccccca tttcatcgcc 120
acgagaaagc cgccatggac gccggcctcc tccaccctn ctccccctcc tccgtcatcc 180
tcaccaaga cgacctcaag aaaatcgccg cctacaaggc cgtcgagtac gtcgagtcgg 240
gcatggctct cggcctcggc accggctcca ctgc 274

<210> 1862

<211> 273

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555663H1

<400> 1862

ctcagatcaa aattgaggag tggaatcccg agaaggactt gctcgccatg gtgactgacg 60
attctaagat cttgtccat cgtttcaatt ggcaacgctt gtggaccatt actccaggca 120
gatgcataac atctttgtgt tggcgtcctg atggaaaagc aattgctgtt gggcttgatg 180
acgggacatt gtcactgcat gatgttgaga atggaaagct attaagaagc ttaaaatcac 240
attgcgctgc cattatatgt ctcaactggg agg 273

<210> 1863

<211> 274

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555664H1

<400> 1863

gctattctta cctcttggca tgaccattca aatgtcttct tttctcttag cttctcttgc 60
tgttttcttt ttcttctcct ccttggagaa gagttttgcc tttcaagcag caagaaagga 120
ggacacagaa agcaacaatc ttcatcaata tactcatctt gttcacctca gtcactcct 180
tccttcatct tcttgcagct cttctaccaa aggttncaaa acaaaagcat cattagaagg 240
gtacacaaac atggggccatg ctcccaacta aatg 274

<210> 1864
 <211> 272
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555665H1
 <400> 1864
 cttgcgtttc atgtgttggg aaaattgtga aaggtgacgt ggaccagtca gatggtagct 60
 tccttgatga tgaacaaata gaaagtggat gggttctcac ctgtgttgct ctacctagtc 120
 agacgttgct attgagacac acaaggatgg agagatcgaa tgatcgatat atatcataat 180
 gtaatcttgt ccattgctct tctaatagcc tctatctatg tcgtgttttg attttgtag 240
 agtgatttgg cattggctag ttagctagct gg 272

<210> 1865
 <211> 156
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555666H1
 <400> 1865
 caattttngt nttntntttt caatttttaa tctccnanc ctttttttaa ttttggaatc 60
 gaaatatnta atctaaataa tccaaaaatt cactcttaat cttgacagtg atatacgtgg 120
 tatatgtaaa tcctagangt aaaaataggc ggnctt 156

<210> 1866
 <211> 269
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555667H1
 <400> 1866
 aatggttatc gttttgaaga agcttttgat ggcagtgctc tgagactgaa tcattgaaac 60
 tagattcaat ttattcgctc ctttcttcac caaaattgaa ttgaatggat gctatcagaa 120
 agcaagcctc caagcttcga gaacaggtcg ctcgccagca gcaggctgtt ctgaagcagt 180
 ttgggggtgg cggttatgga ggttcagata atgtggttac tgatggagtg gagcccagct 240

269

gtttcttaca aggetctact ctactgcttc accttctgct ctagaaaatt cagtgggtgat	60
acatggcttc ggctactctc tctgtagcca aaccagccct tcaggcaaatt gggaaaggct	120
tctctgaatt ctctggcctc cgcagctcat caggcttcct tccttttct agaaaatctt	180
cagaggattt ccattctgtc attgccttcc agacctatgc agttggaagc agtggaggat	240
acaagaaggg tgtgacagaa gcaaaactga	270

ggcaattgtg	aatcccaagg	aatgaaggat	ttcatgaatg	agagcaagct	gaatgatctc	60
ttgaacagct	ctgattatgt	cccaacctat	gaggacaagg	atggtgactg	gatgctgtcg	120
gtgatgtccc	atgggagatg	tttgttgaat	catgcaagcg	tttacgcatc	atgaaaggaa	180
aggaggctat	tgggtcttgg	cttgcaccaa	gagccatggc	aaaatgcaag	aacggagcta	240
gactagtctg	acaattcatg	acctgcc				267

ggtgcaatga ttggcgttac tctatggcaa taactgtttg ctgaatttga ggcaaagttg 60

cattgtggtt ctgcatatct gattcagaac attaaagttg ttgacaatca ttctacatac 120
 aaaacaaata tcccttcaat gtccaaaata tcaagcatgg gtcaaagttg tatgtcaaca 180
 ttgatatagc aaaaatccaa gaattccata ataggtacaa tgcatatatt ttggaacac 240
 tcaaatttga ccttcatctt ttgttgc 267

<210> 1870
 <211> 267
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555671H1
 <400> 1870

gaacgaagcc tccctgttct tcttcttctg cgctttctct ctccctctct agaaccgtaa 60
 ccgtcgtttc tttctttctc actcctcaac cagagataaa gagtcacctt cttatctttc 120
 tgaatctcgc ggcgttggtc tttctgctgc tgcggctgtg gttccggcgg cgatgggaca 180
 gcaatcgttg atctacagct tcgtcgtcgc aggcaccgtt atcctcgcgg agtacaccga 240
 gttcaccgga aacttcaccg gcgtggc 267

<210> 1871
 <211> 268
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555672H1
 <400> 1871

cacttttcag ttacaaagca tttcattgtt ttacaatata caacactaca atggctgctt 60
 caacaatggc tctctcttca tcatcattgg ctggccaagc tatcaagctt gccccctcca 120
 cccctcagct tgggtgttga agggtttagc tgagaaaaac agcctccaag actgtttcct 180
 caggaagccc atggtacggc ccagatcgtg tcaagtactt gggcccatc tctggtgagc 240
 ccccatccta cctcactggt gaattccc 268

<210> 1872
 <211> 268
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700555673H1

<400> 1872

cacaaaacac tatagcaata gaaacatttg cttttgaaaa acccctcact cttcatcact 60
 aactagcta nccacatac aatgtcgacc aaatttaagg tgtttcgtga attcacaagc 120
 gatgactcat tcctaaacca agttatccct gaaaacatca ccgaattcca agtgactctg 180
 tccctcncta gagactacga tggcaacaac tcaaccaacg gaaagttcat tccttatggg 240
 aactgaaaa ggatcatccc aagtgata 268

<210> 1873

<211> 269

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555674H1

<400> 1873

agcaaccatg gcaatggcaa cccaagcctc tctcttaacc ccacccctct ccggtctcaa 60
 agccagcgac cgcgctccg tgccatggaa gcaaaactcc agcctctcct tctccagccc 120
 gaagcccctc aagttctcca gaacaatcag agcagcagcc gccgacgaga ccacagaggc 180
 accagcaaaa gtagaggctg caccggctgg gttcacccca ccagaacttg acccaaacac 240
 cccttccccg atcttcgggg gcagcacccg 269

<210> 1874

<211> 258

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555675H1

<400> 1874

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 aagaagcaac taaaaatgga actccaaagc ctgatgcac cattgcaagt aaaggtcacc 120
 ttagcgtgtc agatctcctg gattttatta gtcccaaccc aaaaggaaat gatgctcgga 180
 ggaaacagag gcgtacaaag atactctcaa caagtgataa caacatcaag aacatgatga 240
 agcaatagct gatgagac 258

<210> 1875
 <211> 266
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700555676H1

<400> 1875

atcgtgttca agaacaacgc aggtttcccc cacaacgttg tgttcgacga ggacgagatt 60
 cctagcggcg tggatgcagg gaaaatctcc atgagcgatg aagaccttct caatgcgcct 120
 ggtgagactt acagcgttac tttggatgct aagggaaacct acagtttctt ctgttcgcct 180
 caccaaggag ctggtatggt gggaaaagtc actgttaatt aattattgtc tcagggctcg 240
 tctcctacgt ctaagttctc atatgg 266

<210> 1876
 <211> 269
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700555677H1

<400> 1876

ctcgcagtgg agagagagtg ttagcaccaa aaatgtcgaa gttaatcttc gtgttccttg 60
 cactaattcc tcttctctgc acctccttct cgccagagaa accctcagat cggcgcatcc 120
 tcgttttgct cgatgacttc gccatcaaat cctctcactc tctcttcttc aactccctca 180
 aatctcgcgg cttcgatctc caattccacc tcgccgacga ccccaaaatt gcgctccaga 240
 gatacggcca gtacctctac gacgccta 269

<210> 1877
 <211> 268
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700555678H1

<400> 1877

caaagcacia agcaaagctc atccttgagt taaaaaatgg cagcagcttc ttccatggct 60
 ctctcatccc catccttggc tggcaaggcc gtgaagctgg gcccatcagc ccagagaagt 120

ggaaggggtga gcatgaggaa gaccgtcacc aagcaggtct cctcaggaag cccatggtac 180
 ggcccagacc gagtcaagta cttgggccc tttcttggcg agccccgctc ctactaaccg 240
 gtgagttccc aggcgactac ggctggga 268

<210> 1878
 <211> 266
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555679H1
 <400> 1878

caancgcata aaaaacanag anacagtgn ctnagcgccg ccgtngncct ancatcttca 60
 tattantcta ttgnctttct ttcacgtttt tctggtttnt aagcccttcc agtgccttat 120
 ttacgcttat acccttctgg ttatgatagc tccattcggn gtcagcanng agccgaagct 180
 cttggcttcc acacatactt tcgganncg cgattgagat acaaagctcc nagnagacgg 240
 accaatcctc aaattcgnac tttacc 266

<210> 1879
 <211> 232
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555680H1
 <400> 1879

atnntatcac tggattaata attagcacat agtttnttgg aagagttgtg anaatgggnc 60
 ttngggagct ntntggagt gcatctatgc ccntgatcaa agtactaata atcactgcag 120
 ttggcatgcc tctngcactg gatnacgtnn tntgcnnggn aangangcaa ggntnccaag 180
 tggcatcanc ttgtgnntta tgtgngcaan cccgnactgg tnggtggcaa tt 232

<210> 1880
 <211> 262
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555681H1
 <400> 1880

gtcacatccc tgaggaacta tgataagtaa caaagctgaa gtaatgacct caggccttgt 60
 gggactgtct ctctcttatg ctttctcctt gacaggatct caaatatctt ggactcgatg 120
 gtattgcaac ttattaaact acattatctc tgttganaga atcaagcaat tcttccacct 180
 accagtggag cctccagcca tcttggagga ccaccggact ccatcttcat ggccttcaan 240
 aggcaggatt gatcttcaag cc 262

<210> 1881
 <211> 267
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555682H1
 <400> 1881

cttgcgtttc atgtgttggg aaaattgtga aagggtgacgt ggaccagtca gatggtagct 60
 tccttgatga tgaacaaata gaaantggat gggttctcac ctgtgttgct ctacctaggt 120
 cagacgttnt cattgagaca cacaaggatg gagagatcga atgatcgata tatatcataa 180
 tgtaatcttg tccattgctc ttctaagcc atctatctat gtcgtgtttt gatttgtag 240
 agtgatttgg cattggctag ttagcta 267

<210> 1882
 <211> 270
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555683H1
 <400> 1882

ggaagagctt gttgggttct ctgagcttcc acctttccag gtcgggatcc aaagaaaaat 60
 ctnnactttc ttcaacaatt catctccaca atttctgggt agtggctttt tttagcagga 120
 atggctcaac gttctaattg tccaatgta ggcaagagtg aagagaatgt ttcagatata 180
 gtcattctg acaaagccca gaaaggtcag ccagttnnca aagatgatta atccaatgac 240
 accaaggaaa attcagatgt agtttcttct 270

<210> 1883
 <211> 267

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555684H1

<400> 1883

caaactcata acaacaactc cttctgttca caaactcatc ttcaattcct tttctgatct 60
acgcaagggtt aaggttaatn tntcgctatc tacttggaca tgaacgaaat cgatgttcct 120
tcgttctttc tctgccccat ttcgctagat atcatgaagg atccagtgcg ggtctcaacg 180
ggcatcacct acgaccgtga aagcatcgaa acctggctgt tctcgaagaa aaaacgacat 240
gccccattac caaactgccc ttgatag 267

<210> 1884

<211> 263

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555685H1

<400> 1884

ccatccttat tcgttcctca ctcanagcc actcattctc tcttctctat tcagtaaacc 60
gctgttttgt atacgagctg tcccagtctc agcctataca tccanaaca tcannacaac 120
tggttgggct ccttgtatgg cttcttcctc agttggtaga agggctacat attcaacaca 180
atctttatca acaaatgagc cagttgtatc tgtagattgg cttatgataa ctgaaggagc 240
caganatcaa ggtactagat gct 263

<210> 1885

<211> 265

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555687H1

<400> 1885

gggaaatggc gtacctgaac gctaggcgca ccttagcatc taccctgtca cgagctcttt 60
cttcttcacg cgctagcgcc tctcgctttc gcttcgcatt cgcattcgcg ttgctccccg 120
ccaaacaaac cgcacccaac cctcactggg cgagtttcgc ggttcggact caatcttcgg 180
gttcgggtta ctgcacctg aacgacctg ccccgaaactg gagcaacctg ccccgaggga 240

gaccattctt ctcgatggct gcgac

265

<210> 1886

<211> 267

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555688H1

<400> 1886

cacagatctg tcttccgaag caggaactaa atatggctga cttgttggaa tgggtcaaagc 60

aagatnagaa acgaatgctt catgtcgtct accgtgttgg tgaccttgat cgcaccatca 120

aattttacac agaatgttta ggaatgaagc ttttgaggca aagagatatc ccagaggaga 180

aatatgctaa tgcttttctt ggatttggcc ctgaagaatc ccattttgtt gttgaattaa 240

catataatta tgggggttacc tcgtatg 267

<210> 1887

<211> 263

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555689H1

<400> 1887

ttgctctctg tgaggcttca atttctaatt aggggtttcgc ttagagtaac caataaccat 60

gggagtcttc acctttgtcg tccgcaaatc cggcagcgaa tggagcgcca agcaacattc 120

cggcgacatc gaggcctccg ccgattccac cttcgatctc caacggaagc tcgtgcaagc 180

cgtctctgcc gttgattcct ccggtggagt tcagtcctct ttctctcccg gtctcctacc 240

tccgctgtgt tccaggtgat agt 263

<210> 1888

<211> 265

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555690H1

<400> 1888

caaacgcata aaaaacacag agacagtgtg tcttagcgcc gccgttgenc taccatcttc 60

atattattct attgcctttc ttcacgtttt ncnggttttt aagcccttcc agtgcctnt 120
 ttangctnat acccttctgg ttatgatagc ttccattcgg cgtcagcaga aganccgaag 180
 ctctggcttc cacacatact ntcggnnccg tcgaatgaga tacaaaggcn ncaanccagn 240
 cgnggccant cctcnaattn caatt 265

<210> 1889
 <211> 263
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700555691H1

<400> 1889

gaaattttta aaatgactng gataaactta agaattcaat tattgaaatt gaataagtaa 60
 acaatttaat tggattggtc gaatggtatc aaaaaaatgg agtactaact cccatttctt 120
 atttattatt gaattaaccg atcaacttgc tttggtatcg aacatttctt tttgatttca 180
 aaaattttcc ggaaaaaatt tgaatctatt tttatatgcg aatcaatcca ctacttctgg 240
 tcctgagggt tctgcgcttg aaa 263

<210> 1890
 <211> 237
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700555692H1

<400> 1890

aaccctaate ctccatcatc gatttgactc gattctctac gctgtntggt atntccttca 60
 aagcaaaaaca attccatcga tgaatcgggc attcgcagct tatcgtgaat aatgatnttg 120
 gacgccgcat aatgcgnntg gcatgggttt ggagatgccg gagcttcgta gtggaccgcg 180
 aacgacgtcg tggctccggt tgctcnanaa tctccgangc ancgntnnng natgtgt 237

<210> 1891
 <211> 268
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700555693H1

<400> 1891
 tgaatctgtt ctctcaacca tgggcaacct acaatttcac cttctttctg ttgttctnnn 60
 nnnnnnnnnn nnnnnnnngt tgtctatgcc tatcataatc ataatagcaa ttccaacaat 120
 tctanattan antnatttnc caattctcgc caattctctg tncctttctca gttgtccacc 180
 aactcctcaa agnccagggg gtggaagttc atggctgcaa aacagttcct ttgtgctggc 240
 attgagtaca ggaagcgtec tctatatt 268

<210> 1892
 <211> 266
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555694H1

<400> 1892
 gaccctgccc aacatcaagg ttctctcat tcttggatc tggggaggca agggacaagg 60
 aaaatctttc caatgtgagc ttgtctttgc caagatggga atcaaccca tcatgatgag 120
 tgctggagag ttggaaagtg gaaatgcagg agagccagca aaactgatca ggcagagata 180
 ccgtgaagcc gcagacttga tcaagaaggg aaagatgtgt gctctcttca tcaactatct 240
 tgatgcagga gctggtcgtc ttggtg 266

<210> 1893
 <211> 260
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555696H1

<400> 1893
 gctcgaggtc acatccctga ggaantatga taagtaacaa agctgaagtn atgacctcag 60
 gccttggtggg actgtntctc tcttatgctt tctccttgac aggatctcaa attttggtact 120
 cgggtgnatt gcaacttatt aaactacatt atctctgttg aaagaatcaa gcaattcatc 180
 cacctancag tggagcctcc agccncctt ggaggncac nggntccact tcatggnttg 240
 ngaanggnng gntggtnttg 260

<210> 1894
 <211> 279
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700555701H1

<400> 1894

gggcttcctc caccgctttc ttcacacccc tccatgattt cactcaagcc agaacaaccc 60
 catcaccccc tttgcctttc atcaaactct cctttgcttc ctccaagtca accttttttc 120
 accctgccct ttcctacaa acctcttcca actttcccag gctttttgga aagcctaagt 180
 ttttctctgt tcatgcaagg gctgccacag aaaaaacat ttatgatttt actgtcaagg 240
 atattgacag aaaggatgtt tctcttagca agtttaagg 279

<210> 1895
 <211> 203
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700555702H1

<400> 1895

gagcgacaaa gagagtgcc a ggtgtgtgaa ggagctcgtt acttgggatc cagttgttgt 60
 tattcttaat cggagatcgc agcggcggat tgcattgagcg gcggatcgga ggcgggtgtga 120
 gcagaggatc gaaagatgtc tgcgatcata gtgtgcggga agagatcagc gctgttccaa 180
 gaccttcctc ccaagaggat ccg 203

<210> 1896
 <211> 273
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700555703H1

<400> 1896

acaaatcaaa gccatggcca cctccaactt ctctattgtt ctctccgtct ccctagcctt 60
 ctttttggtg ctacttacca aggcacactc gaccgatacc gtttctttca ccttcaacaa 120
 gttcaaccca gtccaaccaa acattatgct ccaaaaagat gctagtattt catcctctgg 180
 ggtgttacaa ctcaccaaag ttggcagcaa cggcgtgccc acctcgggat ctctcggtcg 240

tgccctttac gctgccccaa tccagatttg gga

273

<210> 1897
<211> 271
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555704H1

<400> 1897

tccgtaaatt attcatagca tatttcanac cacactcann aggttcnct cncnacttn 60
gattngattg atttcatnac atggctacac tatntgtttn nnantngtga attgcatttg 120
ctacactata ttttaaggac aattatacat agactatatg gggttgatgg ctgcgaacca 180
aactcnattg ttgtctaaga tggccatcgg anatggacat ggtgaagcat ccccatattt 240
tgatggatgg aaggcttatg atgaaaaccc c 271

<210> 1898
<211> 114
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555705H1

<400> 1898

ctcngtcgt cgnttngatc agcttccttg ggggtggtaa gaatctnccc tctgtgnctc 60
tnncnctgc tgagngagct ncntgtcacn gggttcagatt taganccatc atgt 114

<210> 1899
<211> 272
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555706H1

<400> 1899

gggaaccctt actaccatca ccgcaaggng gnaagcaggg gaagaagacg accatcacgg 60
gttcgagctc gtgagcttgc tcaccggctg cgtcgacgca attggatcga gaaacgtcac 120
tgcaatcaac catttcatag caaaattggg tgatcttgct tccccaaag gaacaacctc 180
gataagccgc atttgcgctt acttcacaga agcattagcc atcagagtca cgaggctctg 240

272

accgaacact cttcttcaat caagcgaagg tgggtctgat tgcaagtgat ccacgataca 60
ctctacgctt cacaaaacct tcaaacccaa ttccacagaa ttcttctgcg ctcaccatgc 120

caccaaagcc tttagactat ggtcaataa atgaaaacgt gaagaagagt caatatgctg 180
 tcagaggtga attatacctt cgagctttct gaacttcaga aagagggcaa aaagattatc 240
 ttactaatg ttgggcaacc cgcattgcatt gggaca 276

<210> 1903
 <211> 271
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555710H1
 <400> 1903

ggcagctgca acatctagtg ctgtgttaaa cgggtttgga tctcacttct tgtgtggagg 60
 aaagaggagc catgcccttc ttgctgctag cattggaggg aaagttggtg cttctgttag 120
 tcctaaaaga gttattgtgg cagttgctgc tgcaccaaag aagtcattga tccccgctgt 180
 aaaaggtggt gggagtttca tagaccaga atggcttgat ggctcgctac caggtgacta 240
 tggttttgac ccactaggac taggaaagga c 271

<210> 1904
 <211> 274
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555713H1
 <400> 1904

caggaagctg ctaaactgca agaatacaac ggttctgggg ctgaagtga atacaaacct 60
 cttcccagtg gaccaaattg tgccaatgaa aaggacacca aggaacaaga ggtgactatt 120
 attgaaaatg tatattggaa ggagtttggc cttcttgat ttgtttgggt ttcattcctt 180
 gcactacaga ttgccaagga aaactatacg actacttggt caacatttta ttgggtactg 240
 aacttggtac aggttccagt ttcagttgga gtaa 274

<210> 1905
 <211> 204
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555714H1

<400> 1905

caaaatatac aggatgagta tattaaggct tattatgctg ctttacttaa gcaacacgaa 60
ttggaagaag ctgcaaaaaa acaattgcc aatacacttg ctgctgatga tccttctagc 120
agtacttcca atcgccaggt tggcatgana tcaaaacgtg aggcagatga tgattgtact 180
gaatgggagg aggctcccat tgca 204

<210> 1906

<211> 275

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555715H1

<400> 1906

ccgcagactc ctgttctaga taactggtat cgcctgcctg ttgcctacca tggacgggca 60
tcttctgttg ttatttccgg aacagatatt gtccggccaa gaggtcaagc tcatccagtt 120
ggcagctcta cccctactt tggcccttca ttaaagctag actttgagtt ggaaatggct 180
actattgttg gacctggaaa tgaattggga aaacctgtgg atattaacaa tgctaaagat 240
cacatctttg gacttggtct gatgaatgac tggag 275

<210> 1907

<211> 284

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555716H1

<400> 1907

gtgtgcttct gctggcggcg gcggttcaag ctggcgctgg cggaggcgnc gtcggaaatc 60
aagaccctat tacaatgagn cctccgagaa tgagctcatg agcaccttcg catcttaaga 120
gattcctggc cgatgtgcag aggcaagcag naggcnactg aagaagacga ngcaagccat 180
catcgatagc tcatgcattt ccatgcaga ggcgctggcc tcaatctcga aactttcttc 240
aagtacctct tcagtnagct ntaagcctcc tcttcttctt tctc 284

<210> 1908

<211> 273

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555717H1

<400> 1908

tttcaactca tttgtcttct gtcaggtttt caatgagata aattcacgtg aaatggagaa 60
aataaacgtt tttaaaggca tattggataa ctatgttttc gtgggtgtca tcagtgtac 120
tggtttcttc caaatcataa tagttgagta cttgggaacc tttgcaaaca caacacctct 180
cacctgtca cagtggttct tttgcttatt ggttggattt atgggcatgc ctattgtgc 240
tcgcttaaag aagattcctg tttgaagcac ctg 273

<210> 1909

<211> 266

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555718H1

<400> 1909

ataactcaca agttttgttc tttcctagca attcgggcgc aatcgtnctt ctgattcaag 60
gaaggagagc ttgttattct ctatcaacaa ggaaaatgtc aggtgaagag gttgttgttg 120
cagctgagcc agctgctgcc atcccaggcg agcctatgga tatcatgact gccttgcaac 180
ttgtgctcag aaaatctctg gcttatggtg gtcttgacg aggccttcac gaaggggcaa 240
aagtgattga gaagcatgct gcacaa 266

<210> 1910

<211> 269

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555719H1

<400> 1910

gagccctgct tattctgcta gaaagcaatc attggatcat gaaggcaaac ttcacatgcc 60
tcatccatgg cctgtaatgc cctctagtct gtactgagc atcttgact ctaatacaaa 120
aggctctgca catggtggtg atacaactta caaagctcga ggaatttga ggtacagtgc 180
atttggtgaa taccctgcac tgcattgtca taaagttgag cattcacatg gaaacttgat 240

Sequence = GATTACA

gccaccccca cctgcactcc taactcaat

269

<210> 1911

<211> 270

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555720H1

<400> 1911

ctcgaacaca acacaacgtt agccttaaaa gtttaaacct tagcagcgtc gacaatggcc 60

ggcgaggagc tcgccgganc accacacgcc ggagctgctg tgtctgggcc atgacatcgc 120

cggaaatgtgc tcggcggttat cctcctccgc cggctccgcg gngctcatgt tccgcaagga 180

ctgcaccgat ctggttcgcc ggatctccct cctcaccac ctcttcgagg agattaagga 240

actcagcaac aacgttgctg gtggttcttc 270

<210> 1912

<211> 269

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555722H1

<400> 1912

gcagaaagca agctcatcct agagttttaa aaatggcagc agcctcctcc atggctctct 60

cttccccatc cttggctggc aaggccgtga agctgggccc atcagccccc gaagtcggga 120

gggtcagcat gaggaagacc gtcaccaagc aggcctctc cggaagccca tggtaaggcc 180

cagaccgct caagtacttg ggcccattct ctggcgagcc cccgtcctac ctactggcg 240

agttcccagg tgactacggc tgggacact 269

<210> 1913

<211> 270

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555723H1

<400> 1913

tctctccgca gcagccacac ttcttcgccg ttccagctga agagccatcc gcaggtaagc 60

aatggttaag cataataatg ttatcccca tgggcacttc cggaaacact ggcaaaaacta 120
 tgtgaagact tggtttaatc aaccagcccg aaagaccaga agacgggttg ctcggcagaa 180
 gaaggctgtc aagattttcc ccaggcctac tgetggatct ctcaggccta ttgttcatgg 240
 ccagactctg aaatacaaca tgaaagtcag 270

<210> 1914
 <211> 271
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555724H1
 <400> 1914

caaaatacta ctatagaatt ggaagtgggtg attctgctcg agacttttgg ttcgaaacac 60
 ctccataaagt tgggccagat actccctaca aatttgggat cattgggtgat ttggggcaaa 120
 cgtttaattc tctttcgacc cttgagcatt atttggagag tggaggagag gctgtgttat 180
 atgttggatc atctttctta ttctgatgaa catgactaca aagatatggg tttacggtgg 240
 gatacatggg gccgatttgc tgaaaggagt g 271

<210> 1915
 <211> 269
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555727H1
 <400> 1915

ccgatcccg cctcgacatt gatagcagtg gagaaatagt ttatgcaata tgagctgctg 60
 gcagacaatg caaactgact tctctgatca atttatatat atagtatgcc atgggttggt 120
 caaagggttt ggaatatctg gaaggaaaag atttcacatc tgaagggaag gattctgtga 180
 aaaagtttat gttgtgagga tcattcctgc ttatagtcaa tggtcctttc atgattacat 240
 gctgctttgt attgatagtg tgtcattgt 269

<210> 1916
 <211> 272
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700555728H1

<400> 1916

tgaacaatga tttgttccgg aagaccatgg ggccagtga gaagggctat ggaagatgca 60
 ggattacaga agagtcagat tgatgagatt gttcttgttg gtggaagcac aaggattcca 120
 aaggtacaac agcttttgaa ggactacttt gatggaaagg agccaaacaa ggggtgtcaac 180
 cctgatgaag cagttgccta tgggtgctgca gtgcaaggaa gcattttgag tggagaggggt 240
 ggtgaagaaa ccaaagacat ccttctcctg ga 272

<210> 1917

<211> 271

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555729H1

<400> 1917

tcaaacgtta ggacaatgac tgttccatct atagatgttc accactttgc tcatttgtac 60
 aacgcaaac atccttttagc cctgtgtact gatgactcgg gagtcttctc tacctgtctc 120
 tccaaggaat acaaaattgc tgctgattca tttgggctgg gaaggaggga aatgtttgag 180
 ctatcaagga atgctgttga gcatatattc gcagatagca aagtaaagga ggatttaaga 240
 aaaattttca attcagtggc aaaaaaatat g 271

<210> 1918

<211> 248

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555730H1

<400> 1918

gtcatacttt ttcggcacc gtctaaacaa cgtaaacacg acaaccttaa acaacggaag 60
 attccacgcg ctcttgaact tcggcaaaaa gaagacggcg ccgcagccgc cgccgaagaa 120
 aaaggaagtg aaagtgaac cctccggaga ccggctggtg tggttcccgga atgcggagcc 180
 gccggagtgg ctcgatggaa gcatgatcgg cgaccgcggg ttcgacccgt tcgggttcgc 240
 gaacccgc 248

<210> 1919
 <211> 212
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555733H1
 <400> 1919
 caaaaagaaa aagtaaacgg ctccatattt ttgtgatgtt gttttctaatt ggtcaatgtt 60
 gtaagaaaaa caataatgtt ttactataat tcgattgatt ttgtttaatt cacgtgtaat 120
 ttattgtatt tggaagttca acttgtgcta cttggcaaag tatgaatcaa tcaactgcttg 180
 gtcattgttg aaatttagtt ctgggcagaa ac 212

<210> 1920
 <211> 269
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555734H1
 <400> 1920
 gaaacgagag atcttccaat tccagtgcac agtaggtagt tcccacagca tgagcaagag 60
 gagcatgtat cttcataacc tccatagaaa ttatctggct gatatcgggg cagataatca 120
 aggtgtctca tcatgtcaag cttcaaagcc aggtccagaa tcaaggccct gatgtcatac 180
 taagtgaggg agaactttct caacgcagca gcattatcat catctacaac atctattctg 240
 gatggaaaat tggtcacacg caaactctc 269

<210> 1921
 <211> 265
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555737H1
 <400> 1921
 tctccaaaga cagctctttg gtctgcctcc acgatacaga gattcagtaa gaacaataac 60
 tccagggttg ccatttttct tgtacnacta ctccactcac caactccatg gtatctttga 120
 ggctgcaagt tttggaggat ccaatattga tccaacggct tgggaggaca agaagtgcc 180

tggtgaatct cgtttccctg ctcaggttca agtgattact aggaaagttt gtgagccact 240
agaggaagat tccttttagac caatt 265

<210> 1922
<211> 265
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555738H1

<400> 1922

cgccgcattg ctctcagctt cacaacacca tggaccacgt tagggaaacc tctgcttggg 60
tagctagccg ctccctccac gttctcgttg actctgcagg aattgagaaa gtggtgagca 120
ccattgattc cattcccaag gttgagtggg atttcgaagg gattcactac tttgataatg 180
gaccactcac cgttcagtac ctgtttgtgt tggacgcttt aaatttttgc ttctggcctg 240
ataaggattt gaattatgat gattt 265

<210> 1923
<211> 267
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555739H1

<400> 1923

cttcaactga gggtgagagt gacacaaatc tagggagcac tactctaaaa gttctattag 60
attcttcaaa acatgaccat gcatcgcgag tcttgggctt ttgtcttcgg cgttatgggc 120
aacatcatct cctttggagt gttccttgct ccattgccaa ccttttacca aatctacaag 180
aagaaatcca ctgaagggtt tccagtcact tccttatggt gtngcactgt tcagtgcaat 240
gctttggatt tactatgctt tcgtcaa 267

<210> 1924
<211> 231
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555741H1

<400> 1924

ctccctccga tttctccaga acagcaaggg agaatcaatt cctcatcgct gcaattactt 60
 cnttcactgc tctagtttct cttcttttct tcttccaacc tcttctcttc tataacccttc 120
 agaanagaaa ttaaaaaacg tagcttcaga ttattctagc tcttcatttt tccatgntca 180
 anatnangcn gtaaatttct naancgcacn gttgcagcca ttttgnggtc gaannncncg 240
 ggntgnggnc cctggncggg tcngntttga angg 274

<210> 1928
 <211> 269
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700555746H1

<400> 1928

gccttcctct ctgcagagtg cagagctttc tctccccgtt gcttcattca ttctcaacaa 60
 caaaccaatc tttaaaatga ggggggggctt gtggcaactt gggcaatcga tcaactcgccg 120
 tcttgcccat ggagataaga aggctgttgc tcgtcgatgt tttgcctcag aagctgagct 180
 gaaaaagaca gtgtttcatg acttccatgt tgctcatggt gggaagatgg ttccattgct 240
 ggggtggagca tgccaatcca atacaagga 269

<210> 1929
 <211> 272
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700555747H1

<400> 1929

agagaggctc ctaagggaac aaggccttca aggaaacccc tacaggatat tggttgggga 60
 cttaaaggag attgtgaagt tgcaaattga agcaagatcc aaacccatga atctctccca 120
 tgatattgtg ccacgtgtgt ttgcacatct gcatcagagt gtcctcaaac atggtatgct 180
 tttgtttctt agagcatctc caaccggagg tgctttgttt gcaactatca tctactgttt 240
 gcctcttttag tgttatctat tttgttacta ta 272

<210> 1930
 <211> 272

<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555748H1

<400> 1930

tgggatcagt ttgtgaagag cgatggataa cagttacat cacaacggtg gcattggtga 60
tagcttcttc agcaccatta ttattggcgg catgccctta cacctccatc ttcagcttcg 120
gtgattcact tgcagacact ggcaacttgt atttcagccc ctacccaccc accaaccact 180
gccttttccc tccctacggc gaaaccttct ttcacatgt cactggacgc tgctccgatg 240
gccgcctcat catcgatttc atcgctgagt ca 272

<210> 1931
<211> 267
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555749H1

<400> 1931

caagattctc acaaacaact cttgagaaag aaagaatggc tgccaacaca ttgatgagtt 60
ctgccatctc agccttccca tctctccttt cctcctcaaa atccagattt gccgcagcag 120
ttcctcttcc cagcttttgt gtcaccaatg cctcttcttc tcgcttttcc atgagtgtgt 180
actggatgcc tggccagcct agacccccct accttgatgg ttcagcacct ggtgactttg 240
gattcgaccc tcttcgtctt ggtgaag 267

<210> 1932
<211> 265
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555750H1

<400> 1932

cttgaaccct ctctcctctc ctcataccca tttctncatt ctctggcacc ctatttntgg 60
ccttgnccg catctcctac ccctntctc tgctgcatgc aaccatgaag attttcaacc 120
ccnccaaatg ctttctccag aacgtggtgt gtcctttcga caccctcttc atcattaaaa 180
ggtttaagcc cttegatctg ggtctctccc acctccacca atnccaattc ctatccnact 240

atngaaacca natecctcgt tcac

265

<210> 1933

<211> 256

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555751H1

<400> 1933

tttagatctg caaacttcag cttagagcan nacaatannt aannaatcca ccttttctat 60

caacctctag ctatatccat tttnanccan atgacagnaa aactttccan caatccatcc 120

tngaacgtgc ctttactatc cgagtggaaat cancangatg aggagnaagc catagcctct 180

catccttcta ccanaaatac tgtgtccttc tttcgacat gccttaangg actcaatgca 240

atatcaggtg ttggaa 256

<210> 1934

<211> 261

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555752H1

<400> 1934

tcctttgata taaactaagc tctttcattt ttccaatatt aaaacttcca gcttcttctt 60

tcctctgtga ctcaaactgc atcaaccaag tnagtgggat tttctataaa ttgttgtcaa 120

tttgtcangt catgtatatg agaaactcat ganaactctg gtggtgactt attagttctc 180

tcggcaagta aggatttcaa acaaactaaa gttgaagaga gtataaatga ctttggaaac 240

tcttcaatcc aatgagttct c 261

<210> 1935

<211> 263

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555753H1

<400> 1935

ttgaatcttt caccactatt tgataggcat caggattatg taaagcggca aactcgtttt 60

gtctcccgtta aaccagcaaa agttataatt tcttcaattg aagctgttgc agagtcaatg 120
 ggtcttaagg tccattctcg caattacaag gtgaggcttg aagncgtttc tgcaaacagg 180
 gttggacaat ttgcagtggg cttggagggtg tttgnagttg cgccaggcnc ttttcatggt 240
 tgatgttcgn aaggccactg ggg 263

<210> 1936
 <211> 261
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700555754H1

<400> 1936

acatacaccc acatatttca tatgggtact tgtaatttg ggtgtggatt gttggtttgt 60
 nacttgntt gttccgttca ggtgattgtn tgattgagcc ttgaagaaat ggaccacagc 120
 gctgatgcac atcgacgga cttgatgacc ataacgcggt tcgtgctgaa cgagcaatcc 180
 aagcaccccg agtcacgcgg cgatttcacc atcttgctca gtcacattgt tctcggttgc 240
 aagttcgntt gttccgctgt c 261

<210> 1937
 <211> 265
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700555755H1

<400> 1937

cngccatggc caccacgcg gctcttgctt ctacaaggat ccctcncana cacaaggttc 60
 ccatcgaagn gcctctcact ctttccaag ccantgcgcn ttaaagagnc ttgaggtgac 120
 ananttctcn gggcttagat ccacttcatg tgtcacatat gcnaacagtg cnagagaatc 180
 nncntnnnt gatctttag ntcccaactc antcccaaga cnaatggatc aatcctgnga 240
 ngggaganac agtggccaag tngaa 265

<210> 1938
 <211> 160
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700555756H1

<400> 1938

catggtaacg gagcagagga aaagcgtgtg gtgtcttctt ctccggtgga tcctcaggcc 60
tgtaatttgg gattagccac tcatgaatca aaatcaatcc attaaatcaa aatacctttc 120
tcactgttaa ctcatcaaca atacctaata tttttggttc 160

<210> 1939

<211> 264

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555758H1

<400> 1939

cgtatacacg ttacaacaag ttcttttttt ttaggcccat ctaactttgt ctctattcca 60
ccaagtattt atcanccctt gctgttttca cttcacttcc gttctgtttc tattcctcac 120
taggagctcc tctccactgg ttcttcatct gcatgcacac agttgcatag ttttggaac 180
caagaattcc tgaagaagg tagcatcaac aagcagttct gaaaatggag atcaccaatg 240
tcagtgaata tgaggctatt gcaa 264

<210> 1940

<211> 266

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555759H1

<400> 1940

caaccctaata ccacccaac ccaaccctat tgaattgaat tgggggaaga agaacataga 60
aagaagaaga aaaatctgca caattgttgt aattgaacga tgtctgtgctc ggtgtgcgga 120
agcaagagat ctttgttcga agagcttccc ccttccccgc cagtatccaa gaggctccgc 180
tgttctcct ccctattcg cctctctctc ccttctctca tcgaccacct tcgcccctctc 240
ttccctcata tggatgacca ggtcct 266

<210> 1941

<211> 265

<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555760H1

<400> 1941

gtagaactag tgatgcagga caccagcatt cttggtgctg aaagtcaccc tctccatttg 60
catggcttta acttctttgt tgttggtcaa ggttttggtg actttgatcc aaagaaggac 120
cctgtaaact tcaatcttgt tgatcctgtt gaaaggaaca cagttggtgt cccatctggt 180
ggatgggttg caatcagatt cctaactgat aaccaggagg tatggttcat gcattgccat 240
cttgaagtcc acaccagctg gggtc 265

<210> 1942
<211> 268
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555761H1

<400> 1942

ctgcagcatt agggtttatc atctgcttca atggggaagg gaacaggagg cttcggttaag 60
aggaggaaca agaccacac tctctgtgtg aggtgtggcc gccgcagctt ccacctccag 120
aagagtcgct gcgccgcttg tgctttcccc gctgcacgca cgcggaaata taactggagc 180
gtcaaggcaa ttcgcagaaa gaccaccgga actggcagga tgagatactt gcgtaacgtg 240
cctcgccggt tcaagagtgg cttcagag 268

<210> 1943
<211> 269
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555762H1

<400> 1943

ccagaatcaa atcaaaaggt aaaaaacaaa ttaaaagaaa aagggaag tatactacgc 60
agaagaggtg gttcaaagtt caatggctga gaagaaggaa atgattccgc aacaatttga 120
catcgaatgcc aaatgggacg cctgcattga tctaccgctc cgtcgcttcg tctactccgc 180
aaccgccggt gcatttggcg gtctcctatt tttcaggagt cctgtgactc gatgggcatc 240

tattgctttt ggtgctggag ttggaattg

269

<210> 1944

<211> 270

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555763H1

<400> 1944

ttcattctca tctttctctc ttctctctcc acccaaacc taactcccga cctgttccc 60
ctctcgtatc cgtcatgaaa ggaggaaagt ccaagaccga atctaagaga gccgatccca 120
aacttgctgt gaataagaag ggagccgcca ccaaggctag gaaacccgcc ggcaagggga 180
aggcagcgaa agaccctaac aagccaaaga ggcctccaag tgctttcttc gttttcatgg 240
aggagttcag gaaggtattc aacaaagaac 270

<210> 1945

<211> 271

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555764H1

<400> 1945

ctaaatagag tggtaaactc taaactcaga atagcatcag agtttctctg agatttgctt 60
taatncaggt ttgaaaacaa actattacgc agnaaaagaa aaactcatat gggaatgact 120
cttattgagt tttttgtttc ttctctttga tacattcacg atgttnagga atactatctg 180
atttgcttca attgttattg gtgagcattg accctcttct caaaatctgt ctcttnattt 240
ctttcttctt tcccgagaac ttgagttcct a 271

<210> 1946

<211> 261

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555767H1

<400> 1946

cgaganatgg cgatggcaat ggcgcttcgc aggctttcat cttcaattga caagcctctg 60

cgccctctac ttcaatgccg gttccctcta ctacaagtcg tctttgcctg atgaagctgt 120
 ttacgacaag gagcgacccg gagttacatg gccgaagcag ttgaatgctc cacttgaggt 180
 cgtggatcct gagattgctg atattattga gcttgagaaa ntaggcaatg gaaggggcta 240
 gaattgatac cgtcagagaa t 261

<210> 1947
 <211> 261
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555769H1
 <400> 1947

ggggatgaac atggtgtcaa aaggtgttca aaatgttctt gattttcttc aggatgactt 60
 ccctgatatg gatgttattg gaatctctgg caatttctgt tcggacaaga aagccgcagc 120
 cgtgaattgg attgaagggc gtggcaagtc tgtggtgtgt gaggccataa ttaaggagga 180
 tgttgatgaag aaggtgttga aaaccagtgt gncaggccct gnggcaactt aatatgctca 240
 aaaaccnnta cgggctcagc c 261

<210> 1948
 <211> 108
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555770H1
 <400> 1948

taagattnnn gattcancaa tgnnctctgc ttctnctact cttctcaagt cataactcctg 60
 ttcttgacaa gtnagagtgg gtcaanggnc anacccttcg ccaanctc 108

<210> 1949
 <211> 252
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555771H1
 <400> 1949

cgttaaacgg cgccggattg cttaaccgag ggttttctga ctctgcttct gtncaattgc 60

cttcttggca ctngncgatc gatgttnccg ngaataatct cgaacccggt tcgacggacg 120
 gtgggggatgg tgntggtngt ngtgngggnn gtngcggtgg tncntcncag ggtgtatctt 180
 cgggaacggg nagaatttga agcangatgt nactccant cccgattcgn ccatgctcga 240
 aacgacgtcg tc 252

<210> 1950
 <211> 263
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555772H1
 <400> 1950

ctcatccata acattgatac tcttttgctc tcagtactgc acctnctac ccagagaaaa 60
 actaatgatt tcaactacgac cctataacac atgtcttgaa acaacaaagt ttctcttcaa 120
 cccttcaaag cttggaatct ctacncaaac atgcttgata gcaccaagga agacatcacg 180
 tagaatacaa gtgaaatgca gtggtgcaga aaacaagggt gagagacgaa cgtttttgac 240
 actggaagaa gctggtttgg ttg 263

<210> 1951
 <211> 266
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555775H1
 <400> 1951

cgcagagaca ccattccaat ttccatggca ctctccttcc gccccgtcat cnacccccgc 60
 gtcaccgacc ggttcactct ntcagttccn cncanccaan cntcccnctc ttccaacttc 120
 ggcacctccc taccgttctc ctccccctca cgagtgcgcg cggcggttcc cttccctcct 180
 gcttctncca nnacgcngtn tncatnccna acntcgatcg tggtttcatn gtgatnccg 240
 ncatgctcng ccgcatcgag cnnctc 266

<210> 1952
 <211> 262
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700555776H1

<400> 1952

cacgcacact gtcacaggtg tagcggcgaa actgaggtcg tagaaagaat ggcgaaaacg 60
acgtcgttgt tgctctttac actgctcctc ttcggaacct tagctctcat ccaggcgaag 120
aaatcgaagg aggatttgaa ggaagtgacc cacaagggtt actttgatgt tgagattaat 180
ggaaaagaag caggtcgtat tgtgatgggt ctttttggaagggtgttcc aaaaactgca 240
gaaaactttc gagctctttg ca 262

<210> 1953

<211> 266

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555777H1

<400> 1953

gttgtttgggt ctcttctctc ttatccatgg catcaacgtt tctcaccta ccaactccct 60
tcctacacaa aaccaatgcc atcagtttct ctaacaagag accctcattt ttgcagagga 120
gctctctgaa gattcatgca attaccaaaa aatgggaacc cacaagggtt gtgcctcagg 180
ctgatagagt tcttattcgt ttggaggagc tttcagataa aacagttggt ggagttttgc 240
tgcctaaatc agctgttaaa tttgag 266

<210> 1954

<211> 264

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555778H1

<400> 1954

ttgaagttga agtcttgccc ttctctcttc aactccaaac acaagacatc atcatccatg 60
gctgcctccg tctccactgt cggagctgtc aacagagctc ttttgaacct gaatgggtct 120
ggacctgggg tttcagctcc cagttcatcc ttctttggga gcagcttgaa gaagggttatt 180
ggctcaaggg tccccaacac aaagatttcc tctggaagct tcaagattgt tgctgtagaa 240
gagaagaaag agattgaaga gacc 264

<210> 1955
 <211> 266
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700555779H1

<400> 1955

ctcgtgagca tgctcttctt gctttcaccc ntgggttgaa gcagatgac tgctgctgta 60
 acaagatgga tgccactacc ccgaagtact ctaaggctag gtatgatgaa attgtgaagg 120
 aagtctcttc ctacttgaag aaggttggtt acaaccaga caagattcca tttgtgcca 180
 tctctggttt cgagggtgac aacatgattg agagggtccac caaccttgac tgggtacaagg 240
 gaccaactct ccttgaggct cttgac 266

<210> 1956
 <211> 267
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700555780H1

<400> 1956

tttactcta cttctctctc ctattgcggc tagggtttag gtttttcttt caccgtctcc 60
 gttccttcaa tcttcttatt ctctttcatc tctgatggag acgttgcggtt ttagttcta 120
 aggggtggtt ctggccttgg gtttttgaa cgtacggtgt cgttttggtt ttgggaaaac 180
 aaattctgag agatggcaac cacgaacct tttgatttgt tgggtgacga cgctgaggac 240
 cntnncanct cantcgcggc gaacaaa 267

<210> 1957
 <211> 124
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700555782H1

<400> 1957

gctataagct agtttatcgt gaggagaata tgnagttgtt tgttttcttt gttgctgcan 60
 tagnccnngg agcannnnca tgccatggcg cangctncca aaggttccct ctccgacatg 120

aaaa

124

<210> 1958

<211> 258

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555783H1

<400> 1958

gctataagct agtttatcgt gaggagaata tgaagttggt tgtttttcttt gttgctgcag 60

tagtttttggg agcatggcca tgccatggcg caggctacca aaggttccct ctccgaatga 120

aaactggcta tgggtgagcgt tcttcggagg taaaatgcgc aagttttagg cttgctgtgg 180

aagcacacaa catccgagcn tttaaaacca ttcctgaaga gtgcggtgaa ccaacaaagg 240

actacattaa tggcgaac 258

<210> 1959

<211> 258

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555784H1

<400> 1959

acgagtctct catactatga tactatagct acacttccca ctgtgtctca ggggtctgtga 60

tacacacaga ctcaactcaa gttcccagct ttgtccattt tcccactgt ttattgaact 120

gcagaacatg gcacagattt tggctccctc tacgcaatgg cagatgagaa tctcaaaatc 180

ctctcccaat gcaactccca ttacatcaaa catgtggagt tctttattgt ggaaacaaaa 240

taagaaagtt tcacctac 258

<210> 1960

<211> 259

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555785H1

<400> 1960

ggaaatgccc tactacatct ccgnctcca aatcagcgcc gccattagct ccgccgacgg 60

<223> Clone ID: 700555788H1

<400> 1963

ctacacaaca caacaaancc tcaactctctc tttcacgaan tcacgctctg tttcagatct 60
gaagccacat aaccctaacc atcaaacggc taggtgtcgc tgggacttca atggcagtga 120
ctgaagctca gaatcctctt cttggagaaa acacatgtgg ttccttgta aaaaagcgcc 180
ggaaatatgg gatgaggttg gtgagagcga cgagcaacga gacaagatgc ttcttcagtt 240
agagcaggag tgcttggat 259

<210> 1964

<211> 260

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555789H1

<400> 1964

ggttcaactg aggtgatggc tttgaatttg ccttctcccg cccaagtga gcccttattt 60
ttctcttcaa ataactccac aaaacttcca ggtagctttt ctttgaagag aaaagatagt 120
gacacaacag tagagagacg agtttattgc tctgccgctg ctcaatcacc accaccagca 180
tggccaggaa cagctattcc cgagccttct gatttcaaga catgggatgg gcaaaaaact 240
atttctgtct taggatctac 260

<210> 1965

<211> 259

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555790H1

<400> 1965

ggctgattta gaagatgcac tgtcaccgac ctgggaaaat cttattagt gtcaagtga 60
cttgaaggat gctgtggatg ggaccataag cttccatgac aaagtaaggn acaggattta 120
caagctcaat gatcagacag caaagctttt tgtgagacca agancttggc atctacctga 180
agcacatatt ctgnttgatg gtgaacctgc aactggttgc cttgttgatn ttggcctcta 240
cttctaccac aaccactca 259

<210> 1966
 <211> 260
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700555791H1

<400> 1966

gttgaagtct tgcctttctc tcttcaactc caaacacaag acatcatcat ccatggctgc 60
 ctccgtctcc actgtcggag ctgtcaacag agctcttttg aacctgaatg ggtctggacc 120
 tggggtttca gctcccagtt catccttctt tgggagcagc ttgaagaagg ttattggctc 180
 aaggggtcccc aacacaaaga tttcctctgg aagcttcaag attgttgctg tagaagagaa 240
 gaaagagatt gaagagaccc 260

<210> 1967
 <211> 260
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700555792H1

<400> 1967

gcaaaaatgg catcattcac catgacagct tccatccttg gcagcccagc cgtcaccaac 60
 cggtcggcag tagcaacgca gaggagatca ctcgtagtga atgctgcaa agctgttgaa 120
 gcagaaaagg tcagttatga caatgacatg gatggttagca atggaaggag gaacttgatg 180
 ttcgccgcgg cggcgctgct gtttgctctg ttgctgggat ggcagtggca gatgagccta 240
 aaccaggaac ccagaagcc 260

<210> 1968
 <211> 263
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700555793H1

<400> 1968

gacaaacact tcgccaacct tctgctgcat cagttgtgag atgcaacccc accaccccat 60
 caggcctcac catcagagct ggttcctatg ctgatgagct cgtaagacc gcgaaaacag 120

tggttcacc agggaggggt attttgcca tggatgagtc caatgctacc tgtgggaagc 180
 gtttggttc aattgggcta gagaacactg aagctaaccg ccaggcatac cgtaccctcc 240
 ttgtgacagt tccaggactt ggt 263

<210> 1969
 <211> 256
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700555794H1

<400> 1969

ttcaacgttt ccatacata cagatcccaa tcctctctca agccctaatt tcccctcatt 60
 tccatggcca cagaagaggc cactgtcgcg gtggaaccgc ctcccgaacc tgcctccgcc 120
 gatcctcccc cggaggagaa ggaggagacc aaacctgaag ccaaggctaa gaaaaccaag 180
 gagcccaaac ctaaaaggt ttccagacct cgcaaccctc cactcatcc ttcctacgaa 240
 gagatgggta aagatg 256

<210> 1970
 <211> 198
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700555795H1

<400> 1970

cttggtcctc cgctcaacaa ctataataac atctttctct ctccgacaca gatcacacta 60
 tggccacctc aagcgccaaa tcagtccatg atttcaccgt taaagatgcc aagggaaatg 120
 atattaatct tgggtgactac aaaggaaagg tocttatcat tgtcaatggt gcctcacaat 180
 gtggctgact aattcaat 198

<210> 1971
 <211> 266
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700555796H1

<400> 1971

<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555803H1

<400> 1974

cctggctctg ttccgtcgat gacgatggcg nntaggggtgc gaaacactga cctccgcttt 60
ctcattcttc tctctctctt gtccatcact tccgccaagg tcttcttcga ggagcgcttc 120
gatgacggat ggggaaatcg ttgggtaaat cagattggaa aaaagatgag aacctggctg 180
gggagtggaa ccacacctct ggccaatgga atggagacgc taacgacaaa ggtattcaaa 240
ccagtgagga ttacagattc tacgcta 267

<210> 1975
<211> 279
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555804H1

<400> 1975

gcggcagcta acttcgggct ccatcttctt cgatctctca aactctatcg gcgcagaacc 60
aatcctatat cactatgggg aagacacatg gaatgggagc tgcccgcaag ctgaagtctc 120
accgtaggag acaaagggtg gctgacaagt catacaaaag tctcatcttg gaaatgaatg 180
gaagaagcct tttgctggtt catcccatgc aaagggattt gttcttgaaa agataggtat 240
tgaggctaag cagcccaact ctgccattcg aaaatgtgc 279

<210> 1976
<211> 277
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555805H1

<400> 1976

ctgaggtgat ggctttgaat ttgccttctc ccgccaagt gaagccctta tttttctctt 60
caaataactc cacaaaactt ccaggtagct tttctttgaa gagaaaagat agtgacacaa 120
cagtagagag acgagtttat tgctctgccg ctgccaatca ccaccaccag catggccagg 180
aacagctatt cccgagcctt ctgatttcaa gacatgggat gggcaaaaac ctatttctgt 240

cttaggatct acgggttcaa ttggaactca gacactg

277

<210> 1977

<211> 276

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555806H1

<400> 1977

ttacacaaga actctccaag gatcctcctt cccacgaaat tcatttggtg ggaaaatcca 60

agaagagggt ggaatttcaa gccagggaag atggattatt tcaatgcacc aggaagaaac 120

catctctttg ttccggggcc ggttaacatc ccgaccagat cattcgggcc atgaacagaa 180

acaatgagga ctaccgttct ccagcaattc cagctatgac caaaacactg cttgaggatg 240

tcaagaagat tttcaagacc ataactggaa tcccat 276

<210> 1978

<211> 276

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555807H1

<400> 1978

ctgaaattca tggatatgana gaanttgaat gatggaaagc caagaaagat aaaaaatgct 60

agagcatatt cttttactct tgaagaagac accacaaatt atggatatgta tgagaaaggt 120

ggtattgtca cgcagggtcaa acaacctaag gtatgaactt taagccactc agggaagcac 180

tcagtgatcc tggcgatttt cttctgagtg atttttcgaa gtttgatcgc ccacctctcc 240

ttcacttagc tttccaggct ttggataaat tcattt 276

<210> 1979

<211> 274

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555808H1

<400> 1979

gagatggtga tcttgaagac tatactgaag agttgattgt tagtcttgac ccatcaaaag 60

ctgttgccaa taagatcccc acgccgcctc cgaagaagta tactgcaata aacatgcttg 120
atggcaggaa cagaattatt gaataataaga atctactctt tacaaggatg atgaaaagtt 180
gaaggccttg agtgggatga aagaaacagg gtatgttcct gacacaagat atgttcttca 240
tgacattgat caggaagcaa aagagcaagc cttg 274

<210> 1980
<211> 267
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555809H1

<400> 1980

gttaaaagcc ttagccttcc ctacaactcc aaacatgnaa gacatcatca tccatggctg 60
cctccgtctc cactgtcgga gctgtcaaca gagctctttt gaacctgaat ggttctggag 120
ctggagcttc agctcccagt tcagcttctt tgggaccagc ttgaagaagg ttattgcctc 180
aagggtcccc aacagcaagg tttccggtgg aagcttcaag attgttgctg tagaagagaa 240
gaaagagatt gaagagaccc agcagac 267

<210> 1981
<211> 272
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555812H1

<400> 1981

atttcgtttg gcaaattgggt atgcagcttt gaaagatgct ctagcctctg aaaatgtgag 60
atttcaaagg aaagctctca acttgatcca ttacctgttg catgagaata attcagactg 120
caacatcgty aacgagcttg gggttcttcg atgttgatgc accttgctc aagtgaagat 180
tcagatgtga gagaagctgc ccttcgtggc cttctccagc ttgtcacaa tgcganagat 240
ggcaaggatg gcnatgagaa agacagtgcg at 272

<210> 1982
<211> 275
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555814H1

<400> 1982

cgcaagctgc atacaatgat tgggtcatgt cgctgtacaa tgtattcttc acttcacttc 60
ctgtaattgc attgggagtg tttgatcagg atgtctcttc taaattatgt ctcaagtttc 120
cattattata tcaagaaggc gtccaaaaca tccatttagc tggaaacgga tcatcggttg 180
ggcattgaat ggagttgtga cttctgccat cgtattcttc ttttgcaccc gtagtatgga 240
ataccaggca ttccgtaaag gcggtgaagt catgg 275

<210> 1983

<211> 277

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555815H1

<400> 1983

ctcgagcgac taagattaat cgggttacta tagttccttg tggtcatgta ttgtantcgt 60
agatgttctt ctgcagtgtc aagggtgtccc ttttgcggc ttcaggttac aaaagctatc 120
agaatttttc gtccgtaata tctccaatgc tttttgatca ttttatttgg acattgtcag 180
agttccattc gccaatatag gctaactgaa gttggctaag attaatcggg ttacattgga 240
ctctgacgtg aatattatgt cnntgtgatt gagcccc 277

<210> 1984

<211> 279

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555816H1

<400> 1984

cttgggttcag gagaatcaac aaattaacac tagggagata ntttcaatca tcaaattgta 60
accatgccaa tccgttcccg tgaacctgca cagaggccag gattgttaga ccgtcaaaga 120
ccactanatg cagtccttgg cggaggaaag cttgctatat attgctatgg aaagacaaga 180
tatcatcggc atcaatggta gctgggttct cnatcatntg gntcctcttt gaagtgggtcg 240
antacaattt tctnactcta ctatgtcaca tctcatggc 279

gatgggaact tgatggtggt ggggaacaaa gtctgagcca tgtccatgac aaggttcttg 180
 gtacccctgc atgtggtggt gctttgctca atggggcatt cattgggggtt caatcccatc 240
 acaagggtag ccgcacagtc ttcccaattg gcaa 274

<210> 1988
 <211> 274
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555820H1
 <400> 1988

gctagaatga tcattatgca tgattacccc cttcacatgg ttgancatcc gggttttggt 60
 gcatttgtcc aaaatctgca gccccagttc aatatggtga catttaacac aattcaagga 120
 gactgtgttg caacttacct gatggaaaag catgtgttat gaagtatttt gatggattac 180
 ctggacgtgt gtgtctcaca ctggacgttt ggaactcaag ccaatctgtg gggatatgtg 240
 ttattactgg acattttgtc gatagtgatt ggaa 274

<210> 1989
 <211> 274
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555822H1
 <400> 1989

ctttgangcg tnttcnacc tctccgacca tnggancctg cttttccgcc accaaagtaa 60
 ggggctcnaa eggcnatggc ntcaacgtnc aacaaaaagc gcannngggac nacgaagaag 120
 ccgaaatcag agacngcgaa ggcgantccc caaggcaciaa ggcggcaant tcgcgccacg 180
 tgccgtgagg gaagcgcacc gatttcgggtt acaagangga tttcaatcag cgttactcgt 240
 cggaaanttg ctgggacacg gccaatgttg ttat 274

<210> 1990
 <211> 273
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555823H1

<400> 1990

cttctcttct cttcattttc tgtggttctc actttcttta ctctaattctt ctaattctctt 60
 attttcttcc cccctactgt tactccccgc ttctctgaat ccctttctgt taatcatctg 120
 tctttcaact cgtgattttt tgggtttgcc taccaaaaag attcaaactt tgaaaatttt 180
 tctcgaaagc caggtgtttt cagaatcgag atccagcttt ttttttgttt gtttttaaaa 240
 aattattatt ttctttcgtt cagccgcgag ggt 273

<210> 1991

<211> 272

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555824H1

<400> 1991

gccactcatc atcgaccac cttttctcaa ctttgcggan agagggagtt gctgacacca 60
 cccatcacct gttctcggtt tgcctcacga tgggtgcgta ggcgacgttg ccgttatcgt 120
 cgacggtgac aggaaggatt ttggatccag ggcagagaca aaacgagaaa gctacatggt 180
 gctttgattc tgctatggaa cattgaggca aagctcagca tctaaaacct tgtaactgtg 240
 aagctatagt ctcttgcttg cactttgcag tg 272

<210> 1992

<211> 269

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555825H1

<400> 1992

ctggtgattg atgcttnaga gcaaagcaga agagatgatc tcgagtctct tggttatggt 60
 ttgatgtact tcttgagagg aagtcttctt tggcagggtc ttaaagcggg aacaaagaaa 120
 cagaagtacg agaaaatcag tgaaaaaagg tttctacctc gattgaagcc ttgtgtcgag 180
 gttatccaac agaatttgca tcttacttcc attactgccg atcattgagg tttgatgata 240
 agccagatta tgcttatctc aaaaggata 269

<210> 1993
 <211> 249
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700555826H1

<400> 1993

attggaaatg tttgatggnn cataatatga ttgacgcaga tacaccatgg cncancttag 60
 tgaaaatgac tctagaagat atttccagca gcttattgac ggtgtagatt attgccacag 120
 taagggagtt atcacagaga tttaaagcct gaaaatcttt tactcgattc actaggaaat 180
 ataaagattt cggatttttg tttgagtga tttcctgagc aggggggtgag tatecttcgg 240
 acaacttgt 249

<210> 1994
 <211> 103
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700555827H1

<400> 1994

cttccttaag ctccttagtg ctgctccttg cngctctaatt nnantatccc ctcaagttct 60
 tgcaaactat gagantnccc cagtgtacan gcctcncact gag 103

<210> 1995
 <211> 271
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700555828H1

<400> 1995

caaattctta aataaaagtg cccccatttt cccaaaatcn accatctaga gttttctctt 60
 ttccactgaa aatcaaatta gggtttggat ttcggaattg ccacagaatc atggccactc 120
 tgaaagagct tcttcctcct gcaaaatcct ctccaccgcc tactacgacc acaccaacga 180
 tccatgggtc aagcagcgtt tctcctcana ngangaggag ttggmntctn anntgntgcg 240
 actggagaga aagttggtac ctttgcatgg g 271

<210> 1996
<211> 272
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555829H1

<400> 1996

gaattcacaa cgcacaatgg cgacaaaacc tcgtttggct tatctctctt ccacttntct 60
tcttctntcn tgttgtaact gtctttactt cgggtgctggc acaagcccca gaatcccat 120
cactctacaa caccttcctt caatgcctcc caaatacaca antaaccctt ccaacatagt 180
cttcgccaac accaacccca agttcnccac tatcctccaa anctacatcc gaaacgcgcg 240
tttcaacacc tcctcgacgc gaaaacnatt at 272

<210> 1997
<211> 273
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555830H1

<400> 1997

cgccactcat catcgaccca ccctttctca actttgcgga gagagggagt tgctgacacc 60
acccatcacc tgttctcggt ttgcctcacg atgggtgctgt angcgacgtt gccgttatcg 120
tcgacggtga caggaggat tttggatcna gtgcagagac naaacgagaa agctacatgg 180
tgcnttgatt ctgctatgga acattgaggc aaagctcagc atctaaaacc ctgtaactgt 240
gaggctntag tctcttgctt gcacctttgc agt 273

<210> 1998
<211> 233
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555831H1

<400> 1998

acaacagaca agtttggtgt tcctgttcta atctctggac catgtcatat aactgaatct 60
aattgcaatt cctgtgagcc gtggcaaagc ttttgaattt agtgctctc actctgttta 120
cccttcaga tattgcagat acagcaagat catgagtggg acttcggaaa agaaacttgt 180

aagaatcgat gttagttctg atactgtatg cccatgggtgc tttgttggca aaa 233

<210> 1999
<211> 278
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555832H1

<400> 1999

gcaaaacagt tcaggccatc acatatttaa ctttgttgaa acacttgac aatgattctg 60
gtccacatct tatagtatgt cctgcttctg ttctggaaaa ctgggaacgg gaattaaaaa 120
ggtggtgtcc atccttctct gttcttcaat accaggggct ggacgggcag catactgcaa 180
ggagttgaac tccctgtcca aggcaggatt gcctcctcca tttaatgttc ttcttgtgtg 240
ttattcactt tttgaacgac acagtgcaca gnagaaag 278

<210> 2000
<211> 280
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555833H1

<400> 2000

ccatgcatca gccatgagca gtgatggtgg atgcatggac anaaccatac tccagggaaat 60
atgcagcctt cccagctcct tgggctccgt actgcaaagt tctggcctac cacaggacgt 120
gttgataatg tgtacggtga ccgcaacctc atttgaccct tctcccagca tcacaggntg 180
ttgaagaaca agcagctgcc acagcataat gtgttcanat gacaactatt ttccatttnc 240
cgttgtagat aaactctatt cctatcatac agttcttgca 280

<210> 2001
<211> 273
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555834H1

<400> 2001

gttcggttcc caacaactga gtttcttggg ggtggaagga ttgtggtttc tctggctttg 60

cctaaatctg ataagcaaga taggtttgtg ttttcatcaa ttaaggcctt ggctgtggag 120
 ttaacaagag aagcacatgc ttatagggag agaaattgcc caacagggat accaagattg 180
 atcgtggatt tgatcaaagg cctgattcgt ggcctcctgc gaatagggca gataaaccgt 240
 cgcttcggaa tccactactc cgtcatgaga gga 273

<210> 2002
 <211> 272
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555835H1
 <400> 2002

cgtctgtgac acacacagac tcacttcaag ttcccagctt ttgccatttt tcccactggt 60
 tattgaacat ggcacagatt ttggctccct ctacgcaatg gcagatgaga atctcaaaat 120
 cctctcccaa tgcaactccc attacatcaa catgtggagt tctttattgt ggaaacaaaa 180
 taaganagtt tcacctacca gttctgctaa atttagagtg ctggcaatta agtctgacaa 240
 tatcaccatc aacaggctcg agggctctact ta 272

<210> 2003
 <211> 273
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555836H1
 <400> 2003

ctatctccga tggctctctc tgcgcatatt tgccgtttcc ccgccacacg cgctgtccac 60
 ttctttgccg gagagtctca ccagaatccg gtgccggana cctctctccg tccgatgctc 120
 cggcgattcc acttccggct ctgtgggttc gagttcgatc cgaagggtgtt tcggaagaac 180
 cttactcgga gtaagaatta taaccgcaaa ggatttgggt acaaggaaga gaccctccaa 240
 ctcatgaatc gcgagtacac cagtgatatc att 273

<210> 2004
 <211> 226
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700555838H1

<400> 2004

acccttcact ttactctctc tctctgacag ctaaaatgca aggaggaatg agatcatttt 60
 tgtcacatgg gaatgtcatt agaaatgctg ttctacaacg cgtggcatgg tgaaccccct 120
 gctacagaca attgcctctt cgcggtttga atctgttacg cctgctcgca ttgaggagca 180
 tggttttgag agcaccacaa tttcagacat cttgaatgat aaaggc 226

<210> 2005

<211> 268

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555839H1

<400> 2005

gcatctatat taaagactct acgaacattt cagattatgc cctacttcta tttggtggta 60
 atcttgcccc tagcaaaagt ggtgagggca ttgacatgct tggaggttac cttcatttct 120
 ctgcttcgaa aagtgtcatc gagttaaaag gaaactacgt ggggagcttg acaagcttct 180
 gaacagaaaa attgaagaac caggatttga cgtttctgct gaaggaaagg gagtgggtgc 240
 tgctgctggt gaattgctgc acagtcaa 268

<210> 2006

<211> 268

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555841H1

<400> 2006

ctcaagggtca agtcattacc tgcaaagctg cgggtggcctg ggaacccaac aagcccttaa 60
 ctgtccaaga cgttcaggtg gctccgcctc aggccggcga ggtccgtgtc caaatcctct 120
 tcaccgctct ctgccacacc gatgctacac ttggggcggc aaggatcccg aaggtctctt 180
 ccctgtatt cttggccatg aagctgcagg gattgtggag agtgttggag aaggtgttac 240
 taatgttcag cctggggatc atgtcatt 268

<210> 2007
 <211> 265
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700555842H1

<400> 2007

attttatcag tgtctagaga gaaacagggtt gcatctttcc ggtgtgaacc aacaggagag 60
 ctgctttttg aactcatgtc ctctctttct tccaagttat caataagaaa atcaacaaaag 120
 acacttggtt ctgcatcttt ctctagaaag actatcttga cccagtttca aaactctatg 180
 ttgagaaatg gttggagttg gtgccgggtt ctggtactat gagctcaaag ccaatcttgt 240
 tacgagtagc catctcattt actgt 265

<210> 2008
 <211> 152
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700555843H1

<400> 2008

cnatagttac tcaactacta cacaccagag gcagagagan ctctcgctca ctctcaaaat 60
 cacttccacc acnccganna atgnnnacng tncntanaat taaaaaccct aacctctctc 120
 aaaattnncc atnatcgngn tnacttcnca ga 152

<210> 2009
 <211> 267
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700555844H1

<400> 2009

ttgttccaga cggcacacag ggtacatttc aaactgtaaa ttttagctct tttttttggc 60
 tcttttctat cagcagttgc cttaactagg ataattgtgt cctagttcta caatgtaact 120
 tatgaatgaa taagattgag atatacttct aaaatagaat tgtttcaaac ctnttatagc 180
 tttacatgga caaagccata aatcctctcc caataaagtt tcaaactatc taggatannn 240
 gangaaaann aaaanagggg ggccgcc 267

<210> 2010
 <211> 268
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700555846H1

<400> 2010

cttctcttgc ggctaggggt ttagcgcant tcttctagat ttaaggnaga tgggtaaggn 60
 aaagggtcac atcagtattg tggtcattgg ccatgtcgac tctgggaaat ccactaccac 120
 tggtcacctg atttacaagc ttggagcatt gacaagcgtg ttattgagag gtttgagaag 180
 gaagctgctg agatgaacaa gaggtctttc aagtatgcct ggggtgctgga caaacttaag 240
 gctgancgtg aaagaggaat caccattg 268

<210> 2011
 <211> 272
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700555847H1

<400> 2011

gaaacagcga aagtgaaata ccactacttt taacgttatt ttacttattc cgtgaatcgg 60
 aagcngggca ctgcccctac tttttggacc caaggtcggc ttcggccggg cgatccgggc 120
 ggaagacatt gtcagggtggg gagtttggcg ggcggcacat ctgttaaaag ataacgcagg 180
 tgtcctaaga tgagctcaac gagaacagaa atctcgtgtg gaacaaaagg gtaaaagctc 240
 gtttgattct gatttccagt acgantacga ac 272

<210> 2012
 <211> 274
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700555848H1

<400> 2012

cagataagcc tanacacgaa actcncaaact tccctcaaca ctggagtcgc tggaaaattc 60
 attctgggac tcagctgagc tgnccaagca tgattcaaaa tgggtgcatt gtatcccaag 120

gggtgtgcccc tctgaattct aggtcacgca ccatggcata cctagtagct ctgcctttcg 180
 ttgcgcttct ctaatgcctc ccaaggttgn cgtctctaac atccggagct tttggggaca 240
 taatctggaa tgtanaccct tgttgcnaag agga 274

<210> 2013
 <211> 272
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555849H1
 <400> 2013

cttggttcag gagaatcaac aaattaacac tagggagata atttcaatca tcaaattgta 60
 accatgccaa tccgttcccg tgaacctgca cagaggccag gattgttaga ccgtaaaga 120
 ccactacatg cagtccttgg cggaggaaag ttgctgatat attgctatgg aaagacaaga 180
 tatcatcggc atcaatggta gctgggttct ccatcatttg gttcctcttg aagtgggncg 240
 aatacatttt cttactctac tatgtcactc cc 272

<210> 2014
 <211> 270
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555850H1
 <400> 2014

atggattttg cgaaatcttt tgcaggggtga atttgtaagg gcaataattg ttcaagaatt 60
 tgctaaaggt ttagatgcac ttggtctagc aacctaggag acagctgctg ccagagttcc 120
 tttcagtagt ttcttttatt cccnttatg actaaagang ntataatcaa cttgagaaac 180
 ttccgacgcc ttatgctatt gctgttgggg gccagaagaa aagaagaatc cagtacagta 240
 agatttctat ttacttaaa gagaactaca 270

<210> 2015
 <211> 271
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555851H1

<400> 2015

gttgaaaaga aaccctagca agtggagcaa tggcagacgt tgaagtcgat gtgnnnnnnn 60
 nnnnnnnnnn nnggctgccg aagaagagaa cgttcaagaa gttcagtttt cgaggcgtgg 120
 atctcgatgc acttctcgac atgtccacga tgaactcgtc aagatgttca gtgcccgcgc 180
 tcgtagaagg ttccagagag gcctcaccag aaagcccatg gccttgatca agaagctccg 240
 taaagcgaaa agggaagctc caccaggtga g 271

<210> 2016

<211> 272

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555852H1

<400> 2016

cagaagtgc cccaatatac ttagccatat ctttacttcc caaaacttgc tctacaatga 60
 gtttccttgc ttcttttgca aganacaagg atatatcaaa agtaggacgc agaggtatcc 120
 attgcatgca gaaactatgt gcagaaaaat atctcctgat tcactagaga aggcccaaaa 180
 tcgtgtgata gatgctgcac tcacacttgc tcgagaaaat acaaggctta agaaagaact 240
 cgtgcatagt ttgggaggtg ctgtggcaac tt 272

<210> 2017

<211> 273

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555853H1

<400> 2017

cgctcacgtt atccacaaca ctctcaaccc ctctttaaac cctaaccaat ccaaccatgg 60
 cttcttcttc caccttcact gcaatgnccc gcctgcaagc tctctctctc cgccgccatc 120
 tctctcttcc cctcccgccg ccgctccaac ncgtcggttct gtcgatgcgc agcgcgccgc 180
 cagggtctcc gccatggcca aggagttgca cttcaacaaa gacggcaccg caattaagaa 240
 gctccagagc ggtgtgaaca agctcgcgga tct 273

<210> 2018
 <211> 247
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700555854H1

 <400> 2018
 ctctttcttt ctgctttgtc caataactca gaacatgccc acttggtggg gtaaaaagtc 60
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 aggaggcgcc gccaccagtg tccttanttc aatttcaaca agctcaacaa gcccaggccc 180
 gacaggccct ccaagagctt cgacgacgtc gtcagaaact cccctcgctg cagcccgcat 240
 ttcagtt 247

<210> 2019
 <211> 263
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700555857H1

 <400> 2019
 gtgatactgt atttatgatc actaaagatc ctaatccagg attagagggga catgtcttcc 60
 ccaatccagt tgatgcagaa ggttacatgg taatgctggg atacaaaaat ggatccctta 120
 cccgagaaga tgtgcgcaac tgtatgcaaa caaatcttgg gatgttttca ataaattttt 180
 gcagcaaaca cagcctttta atggtggaaa gttagggtttc tactacaagg agcatgaaat 240
 tctacctcct cttccagttg gtt 263

<210> 2020
 <211> 201
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700555859H1

 <400> 2020
 ctcccacgtg gcacactaag aaacctcgaa cgccgaggca egggaaacat tctcgtaaca 60
 acaacccttt ccatttgggtc ctgaagagggg ttcggaggag gcgaattccc atgatgagaa 120
 cgaggagcag cttctttata gggcccccat attcgaccct tttgttgctg agctatgtgg 180

gactaatagt tctccttctc c 201

<210> 2021
 <211> 111
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555860H1
 <400> 2021

gcactttccc nttcttccaa ttcattgctg ntntngatcg antcccttcc tctatcacgc 60
 caaatcccac cgaatngtgc gacnccgtat gatnntatan aatnntggng a 111

<210> 2022
 <211> 266
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555861H1
 <400> 2022

tcaaaagcag cttggattga agcacagtat gctgcatggg agaagcagca gaaagaaatt 60
 gngcatacaa gagacttgat aagtagatta ggtgctggag caaattctgg ccgtgccttc 120
 ttctgctgag aagaagctgg agagnttcag gaagaggaac tagtggagaa gccatttgaa 180
 cggaaacaaa tgaaaatcag gttccctgag cgtggaagga gtggaagatc tgttgtagca 240
 attcagaact tggaatttgg ctttga 266

<210> 2023
 <211> 241
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555862H1
 <400> 2023

catcaacaga gaagccatga aaactctgat ttgtgcacca aacgcagcct tcaatctctc 60
 aaaactttct ccatggaaac caaacttcca agcttatcat catcacccta cacacaaact 120
 caactacccc ttcaccacat taaagcacgt gctagtgccca aaggcttttc ttccacgggg 180
 cctccaactg ttgcaagtga taatgccaat actactaaga agcccatgag aaganaaaac 240

a

241

<210> 2024
 <211> 273
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700555865H1

 <400> 2024

 ctgcttaana atgtgagtgg agaagctaag cctggaagat tattagccat aatgggacct 60
 tcaggttcag ggaagacgac gttgcttaat gttcttgagg gtcagctaac agcatctcct 120
 cggttgcata tgagtggcgt tttggagtca atggaaagcc tggttccaag aatgcttaca 180
 agtttgctta tgtgagacag gaggatctct ttttctcgca gctcacagtg cgggagacat 240
 tgtctcttgc tacagaactc cagcttccca act 273

<210> 2025
 <211> 264
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700555866H1

 <400> 2025

 tgnctaaagg agaagaagca acagctgagc ttgatgctaa gatgaaaaaa ctttactgaa 60
 gatgctatca aatttaagat ggatgacact gctgagttgt atgattttga tgatgagaag 120
 gatgagaaca aatttgattt aaaaaaattg tgagtgaaaa ttgggtcgag ccaccaagaa 180
 gagaacggaa gcgcaattac tcggagtctg aatacttcaa gcaaacaatg cgccaagggtg 240
 gccctactaa accaaaagag cctc 264

<210> 2026
 <211> 261
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700555867H1

 <400> 2026

 ccaaaaccca cataaganaa tataanaaag agcattactt ttttaatttc taccttcttt 60

tatgcaacca gaagtgtagt gtgttggtga tgactagggt tctgccagcc ctggggataa 120
 tgggtaatta tctagattnt cagctaaagt agaagcagct cacagttcca gaacccttc 180
 tggaatttca aaaactagac cttcatctgt tcttcccaac ttatctattc tgtcatatag 240
 tgaagcaagt gatttctcaa a 261

<210> 2027
 <211> 267
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555869H1
 <400> 2027

gagtttggtg atcgagataa ctagaaacag tgtgatgaaa atgaagggtcc ttgttttctt 60
 cgttgctaca attttggtag catggcaatg ccatgcgtac gatatgttcc ctctccgaat 120
 gaacactggc tatggtgccc gtactcggag gtgaaatgcg caagttggag gcttgctgtg 180
 gaagcacaca acatctttgg ctttgagacc attcctgaag agtgcggtga agcaacaaag 240
 gaatacatcc atggcgaaca atataga 267

<210> 2028
 <211> 52
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555870H1
 <400> 2028

ttggtgcctt atcgctgann tttncatcgt ctnccttct cttntatttc tt 52

<210> 2029
 <211> 268
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555871H1
 <400> 2029

canaaatggn gttgttcttc tacgcggtgt tcggcggttt gggagcgggt gttgcagtga 60
 cggagctgag caagagcaac aaggaccgaa tcaacacctc ttccgcattc aattccttca 120

agaacaacta cctcatcgtc tttcctcat gatggctgga gattggctac aaggccata 180
 tgtctactac ctttacagta catatggata tgggaagga gacataggac aactcttcat 240
 tgctggtttt gggctctcca tgctcttt 268

<210> 2030
 <211> 263
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700555874H1

<400> 2030

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 caaaatatat gtctcaaaga agcactatcc acagaaatgc caacaacaaa acatgctttc 120
 tgtatatgga tgatagtagc aagtttccat cttggtttta tgctgtttta ggggaacgat 180
 acaatgattg gaaggcagaa ttttatagac tttataatct tgagtcagtt gaggattttg 240
 aactaggctg gagggaaatg gct 263

<210> 2031
 <211> 138
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700555875H1

<400> 2031

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 catcaacaca ttctacag 138

<210> 2032
 <211> 263
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700555877H1

<400> 2032

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ancattentc tgctttttcca cctcattngc caccaccttc gccggagcaa actcttttcg 120
 cttgcctccg gcacccacct tacttctggg cacangccgg cgacctcgac ctccgacnag 180
 aaccctcgcc ggcggtcccc cgganccgagg cggggccccc attgcnnttc cgattcgncg 240
 acgtaccgga gtcctaattt cct 263

<210> 2033
 <211> 266
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555878H1
 <400> 2033

aaggccctgg ataaaaagcc cagggttggg ttggctattg ccctcaaacc ttgaggtttt 60
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 ttgaaaggag ggaaaataat tagtcaacag atgagcattt ctaggctctt catgaatgga 180
 taaaatattg aattttcaat aacttggatg agtggcttct gtttcccatt ttttattgaa 240
 ttttctgcgt ttctccaac attgtg 266

<210> 2034
 <211> 98
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555879H1
 <400> 2034

ctacgaaggg ctatatagca taaacatttg agtcttcatt gacacaatgt cgacntcttc 60
 cattaacggg tgggtgcctct cttccatctc nccagcca 98

<210> 2035
 <211> 120
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555880H1
 <400> 2035

cccttctctt ctcanccnca cactccnalc tcacacactc ctacncatcc aacaatgtct 60

ctcaccattc cctcnaanct ntcnaancnc gtcgcactct gntcgnaact nancccaaag 120

<210> 2036
<211> 269
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555881H1

<400> 2036

ctatTTTTca tttntgaata catggattgt aatctttatc nactaataaa ggagagagaa 60
aagccctttc agaggaagag atacggtgct ttatgaggca agtgctacaa ggacttagtc 120
acatgcncaa gagaggattc tttcanggga tttaaaacct gagaatatgc tggtaacaaa 180
tgatgttttg aaaattgctg attttggact ggctagagaa gtatcatcga tgctccata 240
tactcaatat gtttccacac ggtggtatc 269

<210> 2037
<211> 181
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555882H1

<400> 2037

aaaataatga aaatggcacg cttgccagtg atttttttcc catttttgac cctgctcctg 60
atatctgtct cgacgaatat taatgtactt ggggagctac cgttttcagc aatgtttgtg 120
ttcggagatt cattagtgga catggaaata acaactatct caactccttg gcaagagcca 180
a 181

<210> 2038
<211> 266
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555883H1

<400> 2038

ctaattgttt aaacctaatt ctcatttctt catcggtoga tanttctcct cctaaagatg 60
cagatcttcg tgaaaacttt gaccggtgag accatcacco ttgaggtgga gtctcccgac 120

accatcgata acgtgaaagc taagatcaag acaaggaagc gatccacacct gaccagcaga 180
gacttatctn tgcgggtaaa cagggttgagg atggtcgaac ccttgccgac tactacatcc 240
aaaaggatnc antctccact cgtgct 266

<210> 2039
<211> 268
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555884H1

<400> 2039

caagcgaagn nanaagcgtt ttctaactta agtgatggcg aacgcagctg aagtttcagc 60
cttgaaccgc atcaaactgc atcttttggg tgaactctct ccaactggcca ctcccctaaa 120
ctattttgat gaatcaaacc ctageccctct gaatcttcca attcccaatc ttcttctggt 180
tctcttaacc actacttcac tgacctcttc gaattcgact ccaaacccca aataatcgac 240
ctcnaaactc ccaaaacact aacttcag 268

<210> 2040
<211> 267
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555885H1

<400> 2040

atttattccg cgtctataag ctttcttggt ttgctattgc ttgctccgca atcataattt 60
catcatcgaa tcaaataaat tttgaagggt cattataatg gcggaagaga taaccaagaa 120
cgacgtcgga gtaacctcca aaacaccaga agcagctcca ggttctggcc tcgttggtt 180
cccacttcca ccgatcacat catcctgccc gagaagcgcc ttctttccgt cgtcaagact 240
ggttatgttc aagagcatgt taacatt 267

<210> 2041
<211> 265
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555887H1

<400> 2041
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 atccttggct ggcaaggccg tgaagctggg cccatcagcc cccgaagtcg ggagggtcag 120
 catgaggaag accgtcacca agcagcctcc tccggaagcc catggtacgg cccagaccgc 180
 gtcaagtact tgggccatt ctctggcgag cccccgtcct acctcactgg cgagttccca 240
 ggtgactacg gctgggacac tgctg 265

<210> 2042
 <211> 268
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700555888H1

<400> 2042
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 gtaccaggtg gactcggncg gtcttgtgct gaatgttaga agcaccagct tgtgtcgaag 120
 gtttcgtggc ttgaaactgt ggggtattgag agactcaact tccaattcca gccaccaaag 180
 caacctaaga ntagaaatca tcaattcaaa aataatttgg aaaatgaaaa gggatcggtt 240
 tctgattcat cctcaattct tcatgttc 268

<210> 2043
 <211> 262
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700555889H1

<400> 2043
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 tcctctcttt ctgacttcag tggaaccaga cttcaaactc aacttcagtt caagagaaag 120
 caatgccatc caaaaggggc ttctacgtct ccgcatcgag caccaagaaa atcctaataa 180
 tgggaggcac caggtttatt ggtgtgtttt tgtctaggct ccttgtcaaa gagggtcacc 240
 aggtgacttt attcacaaga gg 262

<210> 2044
 <211> 263
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700555890H1

 <400> 2044
 aaaaaccttc ctttctcttc tcacccccac actcccatct cacacacccc tcgcatccaa 60
 caatgtctct caccattccc tccaacctct ccaagccgc gccctccgc cccaaactaa 120
 gcccaaagct aaggctcgcc gcacaaccac catcgtctgn nnnnnnnnnn nnnnnnnnnn 180
 nnnnnnnnnn gtgtctctcg acctgaaggc gttctccgcc gcgctggccc tctcctccat 240
 cctcctctcc gccctctcc ccg 263

<210> 2045
 <211> 262
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700555892H1

 <400> 2045
 gctagcaata atgcgttttt gaaacncgna ttcattctgta tccacacgat ttactagaag 60
 gagatcgcaa tttctccatc ntctcgtttc ggtggctcgt gaaatcgaaa gttatcgaaa 120
 ctttcgcgcg acacgaagta tgggaaccaa gcanaatttc tatggctgac gaaccactat 180
 atccaatagc agtgcttata gatgagttga aaaatgatga catccagctg cggttaaact 240
 caattcgag gctatcnaca at 262

<210> 2046
 <211> 261
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700555893H1

 <400> 2046
 ttaccagttg ccacactaca ccgagatncc cccctaaaccc gnttgcggtg ttgtttgcga 60
 agaaatggcg actaagagga gcgtgggaac gttgaaggag ggtgatttga aagggaagag 120
 ggtgttcgtg agggctgatc taacgtgcct tggatgacaa ccttaacatc accgatgaca 180

ctagagtccg tgctgctgtt cccaccatca agtacttaac tggatcatgga gccaaagtga 240
tcctttctag ccacttggga g 261

<210> 2047
<211> 126
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555894H1

<400> 2047

cagcgccgga gatgcgctac gtgtaattta tgagcgcaat gtganacatg nngacttngn 60
ccttntcagt ggagancctg taagcaanat nacgcttact caggnacttc tagngcannt 120
ngngag 126

<210> 2048
<211> 220
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555896H1

<400> 2048

cacagcaaca ataacaatgg cagnctcact acaagctgca gctaccttca tgcnaaccac 60
caaggtgggc atggccactt cgnaacctca aatctacaca atgcatttct aaggcttttg 120
gcttngaacc cgctgnagct aantcatng ntccctnaag cccgntctcn aagntntngc 180
tcannnatgn gtngacgnca ncnaattgn ncgattngcc 220

<210> 2049
<211> 291
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555901H1

<400> 2049

cctaaatagg gttagggttt atgcaatcga actccagcga cggatgcattt gtgcgtaatc 60
gatggcgaat cgcacggatc cagcagcgaa gagcataaga gggacgaacc ctcagaacct 120
ggtggagaag attctccgat cgaagatcta ccagaacacg tactggaagg agcaatgttt 180

cggtttaacg gcggagacgt tgggtggacaa ggccatggag ctcgaccacc tcggcggcac 240
 cttacggcgg caaccgcaaa cccacgccgt tcatgtgcct cgtcatgaag a 291

<210> 2050
 <211> 285
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700555902H1

<400> 2050

agccgagagt acatttgtgg aaaatatgca ggatgtgccc cagctggaaa gttctaaact 60
 gaacaaaatt gatatggtgg accatgaaaa gtttgccaaa tttgaaagga aatcagctaa 120
 gcataaggat gaaacagagg ataaatcaat acaattgtat cagaggctgc aagggtgtgac 180
 aaaagttttg aattgacaga ttaatgctag aacaagactg tgggtgttgc gaacctgaaa 240
 ctgaaaacga ggatgaaatc ttaaaatctg agttaggcag agaca 285

<210> 2051
 <211> 91
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700555905H1

<400> 2051

gtggacagcg aggtggatat ncaccatant ancccttnng agnacggagt gaaaaganat 60
 aagctggact tccttgctta tttcttttcc a 91

<210> 2052
 <211> 286
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700555906H1

<400> 2052

ttttagaaga atacccctc ttttgctgca tcagaggagt tgtaaattaa gagcatgggc 60
 tgcacaagct cttgtattca tcatcttctc ttaccttctc agcggaggct gcaagacaaa 120
 gtcttgacc aagatcactc caatctccat ttggcttctc cagaaaagcc tcctttcttg 180

ttaaggcagc tgctaccccc cctgtacaag caaggatcag acagaccttt gtggtttgca 240
tcaaagcaaa gtctttctta cttggatggc agccttccgg gtgact 286

<210> 2053
<211> 291
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555908H1

<400> 2053

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ggttnatcac agtgggtgtgg tgcgcngtgg cgggtgctatt atgcgcgcgc gccgggtgcgt 120
cgtgggtgga ggaggcggcg aacccgatac gaaggtgtct ggcgtggagg cggaggtgggt 180
tcgggtgatc ggggagtgcc ggcgtgcgtt gaagtttgct aggttcgtga gcaggttcgg 240
gaagagttac caaagcgagg aagagatgaa ggagaggtac gagatattct c 291

<210> 2054
<211> 293
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555909H1

<400> 2054

gttccagatc gtgcttacca tcatcagaga tgggttgaag accgatccca ccaggtagcg 60
caagatgaag gagcgtctcg ttgggggtttc tgaggaaacc accactgggtg ttaagaggct 120
atatcagatg caggcgaatg ggactctact cttcctgcta ttaatgtcaa tgactctgtt 180
accaagagca agtttgacaa cttgtacggg tgccgtcact ctctccctga tgggtctgatg 240
agggctactg atgtgatgat tgctggaaag gtggctgttg tggctggata tgg 293

<210> 2055
<211> 291
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555910H1

<400> 2055

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 acattncaga cgttgggaat aggacatgcg tttctctcgt ttatttggct ctgtggcccc 120
 attacaggtc ttgtggttca accatgcgtt ggtattggag tgataaatgt acttcaaggt 180
 ttggcagaag acggccgttc attctggcag gatctcttat gatatgtctg gctgtgatat 240
 taatcggtatt ttctgctgac attggatatg tattaggtga tacacatgag c 291

<210> 2056
 <211> 293
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700555911H1

<400> 2056

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 ggcaggtaaa aaataggata aataaaataa tatatacaaa agaatactat acagaaaaag 120
 aaaatgttaa tatatacaaa ataatggagg cagattagt ttagcaacac tcaaacatta 180
 aaggctcaat aatcaciaag ccgatggatc gatcataatc agggactgat gagtgattag 240
 ttccatccca tatgactgac actgaaccta gccaccgaaa ttccaccatt tct 293

<210> 2057
 <211> 291
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700555913H1

<400> 2057

gtttgtgata actttagccg aggtcnggag gagcactagc taagttcaca atttcaaat 60
 gggctagggg actaaagaag catttgaaaa ggctcaatgc tcctaagcat tggatgcttg 120
 acaaactggg tgggtgcat tgcgcctaaac cctctctgga ccacacaaat cgagggagtg 180
 cctccccctc attcttattc tgcgaaaccg gctgaagtat gctctgacat accgtgaagt 240
 catgctattc tgatgcagcg ccatgttctt gttgatggca aagtcaggat g 291

<210> 2058
 <211> 146

<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555914H1

<400> 2058

caacgtcttc ccttctcttg ctactngcta tgntcatctt caatanctgc aaccttactc 60
atantgcatg nctgagccaa aacccaaacc caaccacat ggacatgatt cctgggaaga 120
tccgaaaacg aggtgttcc cctcgg 146

<210> 2059
<211> 291
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555915H1

<400> 2059

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ttggtgctac agctgcaccc gtttcgtgca cctctctgtc caaagcacca tcgcctgccc 120
ccactgtcaa agcggtttcg tcgaagagat cgggccggcg ccggagccga agcctcgcca 180
cgccatcgac taagtccttt ccccgatgat cctcttttgc tccggcgaca gggcttccgc 240
cgccgtagga gagaagcttc cggcaaccgc tccccgttca accccgttat c 291

<210> 2060
<211> 291
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555916H1

<400> 2060

acaacacata ccctttttcg aatcaacgcc actcgcccaa agaccaaact nnnnnnnnnn 60
nnnnnnnnnn nnnnnnnnnn nntcaacat ttcacaactc aattttgcaa tttccccttt 120
cctttttcta ctgcccctcc tctccctccc tcttcgttta acatcttcca ttccttctct 180
ctctctgtgt attctagggg taggggttctt ctgactccac aatggccggt tcaaccactt 240
tctccgctcc caaattggag gccctattcc tcaaagtctc ttctctctct t 291

<210> 2061
 <211> 282
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700555917H1

<400> 2061

cttttgcgta gtagaaactt tgagtctttc tttgaaactt ttttaagtcag agagtctttg 60
 ttgagacgaa aaacaaaaac catgtcatca tcaacaatac ggagagatct agaaagtgga 120
 ggggcgaaca agaacatcaa caacataagt acagtgccgc tcccacttcc tatgtttacg 180
 atccggaagt tcattggaca tcgtggctcg tgccgctggt tgtggcggtt aacgttgtgg 240
 tgttcttgtg gtcagtatgt caagattgcc ccaggaaaaa ct 282

<210> 2062
 <211> 285
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700555918H1

<400> 2062

cttttgcgta gtagaaactt tgagtctttc tttgaaactt ttttaagtcag agagtctttg 60
 ttgagacgaa nnacaaaaac catgtcatca tcancaatac ggagagatct agaaagtgga 120
 ggggcgaaca agaacatcaa caacataagt acagtgccgc tcccacttcc tatgtttacg 180
 atccggaagt tcattggaca tcgtggctcg tgccgctggt tgtggcggtt aacgttgtgg 240
 tgttctttgt ggtcagtatg tcaacgattg ccccaggaaa aatct 285

<210> 2063
 <211> 286
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700555919H1

<400> 2063

agcgttgcca ttctcatcct cttctttctc tctctaccat tgccatggat ccctacaagc 60
 accggccatc cagcgccttc aattctccct tctggactac aaattctggg gctcctatct 120
 ggaacaacaa ctcctcttta accgttggac tagagggtcca attctgctgg aggattatca 180

tcttgtggag aagcttgcaa attttgatag ggaacgtatc ccagaacgtg ttgtccatgc 240
caggggcgct agtgcaaagg gtttctttga ggtcacccat gacatt 286

<210> 2064
<211> 277
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555920H1

<400> 2064

gtcaccttct tcttctactg tgttgtgatt ccccttacia tcctggtoce tgaggttcat 60
gttccaatct ggggagctgt ttatatctct tctgtcatca ccattctcaa ttcagttgga 120
acaccaaggt ccattcacct nctgttctat tggatcctct ttgagaatgt gatgtctttg 180
caccgtaacca aggcaacatt tataggctctc ttagagtatg ggagggctaa tgaatggggt 240
gtgactgaaa aacttggtga ctctgtcaac aataata 277

<210> 2065
<211> 230
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555922H1

<400> 2065

gtgatggctg agtacgacct aactgccgcg gatggcgccg aatctcgaca ggcaccttgt 60
gttccctctc ctggagttcc tgcaggagcg gcagtctaac gacgacgacc acatcctgaa 120
ggcgaagatc gaccttctca acaacaccaa catgggtgac tacgctatgg acatccacaa 180
gagcctctac cacaccgagg acgtcccga cgaatgggtc gaccgcccgcg 230

<210> 2066
<211> 293
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555923H1

<400> 2066

gccgtaaaca gatgtgaacg gttccttctc ccttcattgt tcgctctatc aacattacct 60

ccttcttcca ccgtatcata ggatnccgac cactcctaac acgtttttgc ctttttaatt 120
aattcctttc tttttattct tcccttccct gagtcttcca cattattttc cttcntctca 180
tcaagaaatt ttggtggcag accctgtgag aaatattaaa gacgggccac tttcaaaata 240
taccatggag ccacaattag aatccccctt gggaagaaaa gattctacag gaa 293

<210> 2067
<211> 293
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555924H1

<400> 2067

agaaaagcca ccttaacatc tcttctctga aaattctctt tagagagata gagagaggaa 60
gaaagaatgg cagcttgacac tgtctactgc aacacaatct canagcacia attgctccat 120
ctcaacccca tcaaagacgc aactcagttt tttcacaaa agcaggtagt tttctggagg 180
aacagcaaga agggcagctg cagcagcaga agaagctatg tgataacatg tgcagcaggt 240
gactcacaga cagtggatgat tggcctggct gcagactcag ggtgtggggag agc 293

<210> 2068
<211> 222
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555925H1

<400> 2068

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tcccaaattc aaatccacca attctaattc cattcttcag gagttgaatt gaattcgtga 120
tgaagaggga ccacaaagat agctgcggcg gcggggcgcn cggaggggact gtgaaggggtg 180
agtgttcctc aatgcagtca aacgggaagg cgaagatgtg gg 222

<210> 2069
<211> 291
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700555926H1

<400> 2069

gaagttggaa gtcattgggca gcaacattga tggcagcaac aacaagttct ggtactctta 60
aagcaactcc tttccttggc caaggcaagg gtgccaatgc caatgctctt agggatgttg 120
tctccatggg aactgggaag tacaccatgg gcatgatttg tggatggac cagacagagt 180
gaaatacttg ggacccttct cagctcagac cccttcatac ttgaaaggag aattcccttg 240
ggattatgga tgggacactg ctggcttatc tgctgaccca gaagcatttg c 291

<210> 2070

<211> 289

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555927H1

<400> 2070

ggtgatccat gggcgatggg ccatgcttgg agcactagga tgcatcacc cagaggtgct 60
agagaagtgg ttgagagtgg acttcaagga gccagtgtgg ttcaaagctg gagcccaaatt 120
attctccgaa ggtgggcttg actatttggg aacccaaacc ttgtccatgc acaaagcatc 180
ctggcagtgc tgggcttcca agttatccta atgggccttg ttgaagggtg ccgcatcaat 240
gggcttgatg ggggtgggaga gggcaatgac ctctaccctg ggggccagt 289

<210> 2071

<211> 293

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555928H1

<400> 2071

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gtcccttctt cttctctctt cttctctctt ccacctcca catagcttcc accctctcaa 120
ccccaccaa cttcatcaag tcttcttgca gcacaccag taccagccc tctgcatcca 180
gtccctctcc gtctacgctt ccaccatcca gcaagacccc cagagctcg tccagacagc 240
cctctccctc tccctcaacc acaccgaggc caccaaaacc ttcgtcgcaa aat 293

<210> 2072
 <211> 131
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700555929H1

 <400> 2072

 cagccactgg cncgcgtctt catcttcacc agnccaacat ggccanaatc cagtgcggnc 60
 acaaccannc taatactgtt antnctgcc tcctcctcat cataccaaga tcnaattccc 120
 aacaagagta t 131

<210> 2073
 <211> 291
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700555930H1

 <400> 2073

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 ccgtgtccgt tgaactttct ttacgccctc ctcgtaacat aaaaattcag atcccgccaa 120
 ctctgaagac ctctattctc ttccctccc cttccacttt cccgagaaaa ataaactttt 180
 ccgtcaattt tctctccacg gtttccttct tcctcacaat ggctccgaac ttcgacaatc 240
 gaagattcgt tctcgtctct cgcattttcc ttctcctctc cttattcttc a 291

<210> 2074
 <211> 283
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700555934H1

 <400> 2074

 agttggaagt catgggcagc aacattgatg gcagcaacaa cangttctgg tactcttana 60
 gcaactcctt tccttgcca nggcaagggt gccaatgcca atnctcttag ggatgttgct 120
 tccatgggaa ctgggaagta caccatggca atgatttggt gtatggacca gacagagtga 180
 natacttggg acgcttctca gctcagaccc ctngcatact tgagactagn attccatggg 240
 gattatggnt nggacactgt ggcttatctt gctgaccenn aag 283

<210> 2075
 <211> 173
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555935H1
 <400> 2075
 gtccccgcagc atngaaaacc tggctctggtt caacatgcat aggtagttga gtgcagtgat 60
 ttcagattgc ntnnnnggct cttnntgctt natntgcact cttcttatca gaaaccaaga 120
 caacaagagt ttcacgttac ttcacatctt ctgtctcttt gctacttctn ttg 173

<210> 2076
 <211> 284
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555936H1
 <400> 2076
 agaacaagta gttgagaact aagaaggaga agcaaatggc ttcctcaatg atctcttccc 60
 cagctgttac cactgtcaac cgtgccggtg ccggcatggt tgctccattc actggcctca 120
 agtccatggc tggtttcccc accaggaaac caacaatgac attacctcca ttgctagcmn 180
 cgggtggaaga gtgcaatgca tgcaggtgtg gccaccagtt ggcaanaaga agtttgagac 240
 tctttcctac ctgccagacc ttgatgatgc acaattggca aagg 284

<210> 2077
 <211> 277
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555937H1
 <400> 2077
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 gagagggtta tcggcgggaa gtttaagatt ggtcggaaaa tcggaagcgg ttcgttcgga 120
 gaaatttata ttgcatcaaa atggatacct ctgagattgt cgccatcaag atggaaagca 180
 agaagaccaa acatccacag ctattgtatg aagcaaagtt atatagtatt cttcaaggag 240

aaagtggatg tccaagtatg aagtgggtgtg gcactga

277

<210> 2078

<211> 287

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555938H1

<400> 2078

gctatgatgt taccgcctgt gaaaccaagg tgattcctgg tgaatatggt ntcgttgenc 60

agcttaacga gggtcgtcac ctcaagaaga ggccaactga gttccgagtt gataagggtcc 120

ttcaaccctn tgatgaaaac aaattcaact taccaaagtc gggcaagaag aggtcctctt 180

ccaatttgaa gctagcgagg atggacaagt ccagttcttt ccaaagtctc cagttgatgt 240

tgacaattct cccagctttg ttgccatcaa tgtcagtcct attgagt 287

<210> 2079

<211> 290

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555939H1

<400> 2079

aaaagtaaaa attaaaacaa aaaggaatat tatatccgat ctatctcaat taaatatgag 60

aaattgtaac ttaaattgatn caaaattata cattagttaa aatataaaga tttgaaacat 120

atttaagtct aagattaatt aaaataaatt gatatatagt atgttattag tgttttgtaa 180

aaagaggagt cttacatgac ttaacttgat gacattaatt tgtttctaac atctatgtga 240

cactactaat tcatgagtna tagagaattg aactaaagtt caaagaacat 290

<210> 2080

<211> 289

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555940H1

<400> 2080

gtgggtacttc aaaagatccc cgtgggtcat ctttgacaaa ggaggggaga tctacacgac 60

gggactcccc acatcatgga gcattacata ggcaccattc acctgttaaa gaaaaacgga 120
 gagaatatgt ctgcaaggta ttcccatccc gttggtagac attgagaggg attacctctt 180
 attagataag cgataccccc gactctttgt ctctcctgaa ttctccaagg ttgttgtgaa 240
 ctggccanag gaaaacctta aactgtctat tcatactcct gtcagtttt 289

<210> 2081
 <211> 291
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555941H1
 <400> 2081

atcagaaacc tgctgtagtg cgcgtagtaa ttcaaaattt gtggtaaagc aaatggcgaa 60
 agttttctgt gattttcggg tccttctctt ggttgccgct ggcgtcttca tctatatcca 120
 gatgaggctt ttcgcaactc aatcagaata tgctgatcgc ctagctgcag ctattgaagc 180
 tgaaaaccat tgtacaagtc aaacgcgatc actgattgat cagattagct tgcaacaagg 240
 acgaattgtg gccctagaag aagagcggaa acgccgagac caagaatgtg g 291

<210> 2082
 <211> 289
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555942H1
 <400> 2082

caagatcaag gaagaggatg tcgaaagagg atgtgnttgt tggcgcgatc gancaaggaa 60
 cgagcagcan caggttcata atatacgacg cgaagactgg agtagtagga tgccaccacg 120
 tggagttcac ccagttctac ccgcaagccg gtgggtggag catgaccca tggagatctt 180
 ggagagtgtg aaggtgtgcg tggccaaggc cgtcgataag gccaccgctg atggcttcaa 240
 cgtcgataaa ggcttgaagg ccattggtct caccaatcag agagagacc 289

<210> 2083
 <211> 289
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700555943H1

<400> 2083

caacatttga agagctcang gctgaaggat gcatcactga ttgcatgttg cttccttcag 60
ccataagaac tcaacatttg aagagctcat gtcattgtata ccacaaactc aataatatct 120
tttcattgtc aaaacaacag tgctactttg aggtcctcac aacaatatta aagacattaa 180
aacataggga gaaagagtgt cttcaaatga atttacatgt ctgtttacaa tgtttatttc 240
tcagagatgt cttcaatttt ctttagggaa agagggtggaa gcaacactt 289

<210> 2084

<211> 288

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555944H1

<400> 2084

gtttaaacct ttcaccttc tccatacttt cttcatctgg gttttgcttg ctataaaaat 60
ctagctaaaa tttgtcgttt gctttcagca agagcttttag cttaattatc accaggaatt 120
tatttggcag tcatggatta ttcatcatgg tgattaacac ttccttggat ctcaacatta 180
atccccacag gcttcatgaa gaacttccca aaaaggaggt ggaaaacaac tttttgtcat 240
tgaatttga ggtgaagaaa tcttctgtaa aacaagagtc tgctggtg 288

<210> 2085

<211> 289

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555945H1

<400> 2085

ctcttttgct gcatcagagg agttgtaaat taagagcatg gctgcacaag ctcttgtatc 60
atcatcttct cttaccttct cagcggaggc tgcaagacaa agtcttggac caagatcact 120
ccaatctcca tttggcttct ccagaaaagc tcctttcttg ttaaggcagc tgctaccccc 180
cctgtcaagc aaggatcaga cagaccttgg tggtttgcac caaagcaaag tctttcttac 240
ttggatggca gccttcggg tgactatgga tttgaacctc tgggacttt 289

<210> 2086
 <211> 287
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700555946H1

 <400> 2086

 gtctgtttca tataaccaaa ctcttcactc tgcttctgct tctttggaaa gcacttaacc 60
 aaactctctg ttccagcttc ctctgttttt tgggtacgaa cagagtttct ctgtttttga 120
 cgatggccat aaaggcgatt gaactgttga aggggtgcgga tcacaagaag aaataatgga 180
 agtgccttgc gcggtggctt cggatttggg ggatgtgatc gatgatgtga acaccttgca 240
 ggtgattcca ctgaatggtg caatgaccaa tgaggttttt cagataa 287

<210> 2087
 <211> 287
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700555947H1

 <400> 2087

 gactatgtgt tttttgatgc tttccatccc accgagcaat ggaacctact caatgcattg 60
 acatcttata attctaccac taattcagcc ttcacttatc caatggatat caagcacctt 120
 gttgatcatg aaattaagat ggaattggac tcacaaatga gtccacttca caacttagtg 180
 ccactgaata agttctgggt atcatgtagt cgttcatatg gagttgaaat aattgtgagt 240
 tgaatatgta ttaagtaatg gcctgccact gaattgaacg acaaagt 287

<210> 2088
 <211> 286
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700555948H1

 <400> 2088

 caggggggacc cttagcctgg ggcttatgct acagcaagga attgagtcct gataaattct 60
 actgcgatga ctactataaa ttaacctacc cttgcactcc tggcgcagat actatggccg 120

tggtgccatc ccactttact ggaactacaa ctatggaaaa gccggggaag ccttgaaggt 180
 ggatctgttg aaccatccag aatacataga acaaaacgcc actctagcct tccaggctgc 240
 actctggcag tggatgaccc caccagagaa gcaccta'cca tcaccc 286

<210> 2089
 <211> 281
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555949H1
 <400> 2089

gnatattcta caagtgatga tttngnngca atgatgancc tatntttggc catgcaagtn 60
 ttgataattc taatnngctn nggtcctcta aagatgtgag taaaaatgna gcacctttac 120
 cattggacac accaagttca caggtgcttt aaggaacaga actgagcctt tggaaatcaa 180
 agaagaatat gctcaatgta gtgatgaatc attggacctc aacaatgaga agattggggg 240
 tcctgcatcc caggttatag aaaatgcatg cacaatcaca g 281

<210> 2090
 <211> 280
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555950H1
 <400> 2090

ccatagctag cgtctccttg cgaaanatga ccataagctt acagtттаag ggctttgtga 60
 ggatatgac tatggcactt ntntcanagc ttccangtca ctgattttca naggcgnagt 120
 gttgcagaag ccattanatt ttcaataaaa tntcctcca agtgtnttcc tacgangata 180
 agaatggaaa gtaatcttaa tcntagcata gagggcnaca ataaagcgtc taggggtgcc 240
 ttngttgtcc tagaaggctg gatcgttctg ggaagtcttc 280

<210> 2091
 <211> 283
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555951H1

<400> 2091

ggagacgata aagaactttg cggatgata cctggtggac ataacggagg tgccggattt 60
 caacaccatg tacgagctct acgacccttc cacggtgatg ttcttcttca ggaacaagca 120
 catcatgatt gatctcggaa cgggtgacaa caacaagatc aactgggctc tcaaggacaa 180
 gcaggagtgc attcgacatt gttgagaccg tctatcgtgg agccaggaag ggacggggtc 240
 tcgtcatcgc tcccaaagat tatccaccaa gtaccgttac tat 283

<210> 2092

<211> 283

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555952H1

<400> 2092

actaattcga ttaaattctaa cgtacgtatn caatcaaatn aatacattat gtcaganttt 60
 aganattcta tggtgnaaat ctttcttggtg ttcttatnna tnacttgntt atatnattta 120
 ggaagagcgg ccccccttt ttttgtaaga cattgtcaga nattcaagan acccatgaaa 180
 ttataaaaa aggaacaana atagatgtcg aaaaanatnt gcnangagta caaactatac 240
 nnaancaana nngntccaac aataaangag ggttttcttt ctc 283

<210> 2093

<211> 284

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555953H1

<400> 2093

cgtcgggagt tggagttggc aacgccttgg tggtggagat cgtgatgacc ttcggtctgg 60
 tgtacacggt ctacgcaact gccattgacc ccaagaaggg taatttgga attattgctc 120
 ccatcgccat tggtttcatt gtcggtgtaa cattttgttg ggtggggcct tctctggagc 180
 ggccatgaac cccgctgtga catttgggcc tgctgtcgtg agctggacct ggaccaacca 240
 ctggatctac tgggcccggc ctctcatcgg tgggtggaatc gctg 284

<210> 2094
 <211> 286
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700555954H1

<400> 2094

gttgagacca agacacactc gttcatatat ctctctgctc ttctcttctc ttctacctct 60
 caagtttttg aagtataaag atggcagaga cattcctatt cacctcggag tcagtgaacg 120
 agggacaccc tgataagctc tgcgaccaat ctccgatgct gtccctcgacg cttgcctcga 180
 acaggaccca gacagcaagg ttgcctgcga aacatgcacc aagaccaact tggtcatggt 240
 cttcggagag atcaccacca aggccaacgt tgactacgag aagatc 286

<210> 2095
 <211> 70
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700555955H1

<400> 2095

tcgctgtctc tcccatcctt nngcattctc aatacccttt tgcatttgtg anaggaaagc 60
 aaacatgggt 70

<210> 2096
 <211> 290
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700555957H1

<400> 2096

caacaagcaa cggtcacgcg cagttcaccct ctcttcacct ggcgtcctct ctgnatttcc 60
 gacaaggatg gcattttctc tcaagcgctt tcaaacgccg ccggcgaaga atccgcgcgc 120
 gcggcgagg agtcatcaac aatgcactga gaagctgccg tctcagtctc ctcttccgga 180
 cgagggtccc gcgagcaatg cctcgtcaa agccatccgc agagcgcaga ctctgcagaa 240
 gaaacgcggc gacacgcact tggccgtcga ccaactcatc ctcggccttt 290

<210> 2097
 <211> 286
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700555958H1

<400> 2097

cttggttcag gagaatcaac aaattaacac tagggagata atttcaatca tcaaattgta 60
 accatgocaa tccgttcccg tgaacctgca cagaggccag gattggttaga ccgtcaaaga 120
 ccactacatg cagtccttgg cggaggaaag cttgctgata tattgctatg gaaagacaag 180
 atatcatcgg catcaatggt agctgggttc tccatcattt ggttcctctt tgaagtggtc 240
 gaatacaatt tcttactcta ctatgtcaca tcctcatggc catatg 286

<210> 2098
 <211> 286
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700555959H1

<400> 2098

gaaggttatt gcctcaaggg tccccaacag caaggtttcc ggtggaagct tcaagattgt 60
 tgctgtagaa gagaagaaag agattgaaga gaccagcag accgacaagg acagatggaa 120
 ggggtcttgcc tatgatattt cagacgacaa caagacatca caagaggaaa gggtttggtt 180
 gactcccttt tccaagctcc acaggatgct ggaactcact atgcagtcac gagctcctac 240
 gagtacctca gcactggact tcgccagtac ttggacaaca aaatgg 286

<210> 2099
 <211> 286
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700555960H1

<400> 2099

ctcactagga gctcttctcc attggttctn catctgcatg cacacacttg catagttttg 60
 gaaaccaaga atttttgaag ggtagcatca acaagaagtt ctggaaatgg agatcaccaa 120
 tgtcagcgag tatgaagcta ttgcaaagcg aagttgccaa agatgggtgtt tgactactac 180

gcacatcgggtg cagaggacca gtggactctg caggagaaca gaaatgcctt ttccagaatt 240
 ttgtttcggc cagtattctt attgatgtga gcaagataga catcac 286

<210> 2100
 <211> 221
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700555961H1

<400> 2100

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 agaagcgaaa caactttctca cgcgtgtctc aatcttgaa tctctgctct aaattctaatt 120
 cttcccgcca tagatgtcgt cgaacttggtg gtgagggaaat tggaaacgga tccgctgttc 180
 aattcggggc gtggatctgc cctgacagaa aaaggaacgg t 221

<210> 2101
 <211> 288
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700555962H1

<400> 2101

gcagcatagc cacgttgtgg cgggccacgc gccaaacctg aaaaagagga aatgctgtaa 60
 tatcccaaaa caacgggaca gagatagctc ttcttcgatg gcttccaagg cgatgagcgt 120
 ggcagcagag aagataggga cggcggcgcg cgccaagccg tgtcgctaac ggacgccgcc 180
 gcctccagaa tacggcagct actacagcag cgtcagaggg cttcttgaa gctgggagtc 240
 aagactcgcg gctgtaacgg cttatcctac accctcaatt acgcagat 288

<210> 2102
 <211> 285
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700555963H1

<400> 2102

aagacctcga aacggagatt caaagtgggt tgccacacaa ggactaccac gacccacccc 60

ccgccccatt ctacgacccc gccgagctcc gaaagtgggc cttcttccga gccctcatcg 120
 ccgagttcgt cgccaccctc ctcttcctta cgtcaccatc ctcaccgtca tcggctacaa 180
 ccaccagaca gccaccgccg ccgagccctg cagcggcgtc ggcgtcctcg gcatcgcttg 240
 ggcccttgga ggcattgatt ttgtcctcgt ctattgcacg ccggc 285

<210> 2103
 <211> 102
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555964H1
 <400> 2103

gttatgacat ttttgcaaaa gcatagccga acatgcagca anaagagatc cnatcttgag 60
 cncntgcagt gnntgaanat cnnngtctgc atcattgatg gt 102

<210> 2104
 <211> 280
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555965H1
 <400> 2104

tatgtggatg gcattaagga gttttctgta ccaaattgatg gtggctgcca ggaccaaattg 60
 ctatttaagt tcagatcttc tggcttatcc aggagacaaa aaactcaatt tggttatgat 120
 agtgatattg gtcaagatgg atcgagagtg agaactcaag cacaaggacc tcaacaaaga 180
 gcaaaaggag acctgagaaa agatcaagaa ggagatcatc ctccatggaa aaccttggcc 240
 ttatggatat tggatacatg atatattatc acaagcctgc 280

<210> 2105
 <211> 279
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555966H1
 <400> 2105

atttcgtttg gcaaattgggt atgcagcttt gaaagatgct ctagcctctg aaaatgtgag 60

atttcaaagg aaagctctca acttgatcca ttacctgttg catgagaata attcagactg 120
 caacatcgtg aacgagcttg ggttcttcga atgttgatgc accttgccctc aagtgaagat 180
 tcagatgtga gagaagctgc ccttcgtggc cttctccagc ttgctcaciaa tgcgaaagag 240
 gcaaggatgg caatgagaaa gacagtgcga aaataaagc 279

<210> 2106
 <211> 283
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555967H1
 <400> 2106

aagaacaaga acaacaaagt aacgtgaaag agagagagat ggaggcgatt gttccagtgg 60
 tggatttcca gaggctttca gaggaagagg agcgcaagaa gctgagaaaa acatgtgaga 120
 aaccaggggtg tttcagaatc atcancactc aattccacta acactcatgg ctgacatgaa 180
 gtcagtgggtt aaataacttg atgaccttcc cacggnatc aaaatgcgca acaaaccctc 240
 cgtccctgag agtggctata gggcggaat gccacaagt cct 283

<210> 2107
 <211> 285
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555968H1
 <400> 2107

cggcgactg agtcgcggtc ttttcccaac tcggaactca gtccattccg cattttctct 60
 tcaaaccaaa tttccttctg aagaaggaga tttgaattca gaattgagtg agaagaagag 120
 aatagaaatg ggctccgaat tgattttcag aggccacgag gctcagcccg tggacgactc 180
 gtactcgccg aagccccaca agccctgggt caccgtgact cgcccgattc actacatgct 240
 ccgcgagcag cgactcgtct tcgtcctcgt cggcgatc atagc 285

<210> 2108
 <211> 283
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700555970H1

<400> 2108

tccgcttccg gcgagaggtt ggtgtcggcg gcgagggacg gcgatttggt tgaggcgaag 60
atgcttctgg aatgcaaccc ttgtcttgca aagtactcaa ctttcggggg tctcaattcc 120
cctcttcatt ttgcagcttc caagggccat aacgagattg tggcattggt gcttgaaaat 180
ggagctgatg tgaattcgag aaattattgt gggcagaccg ctttgatgca agcttgtaga 240
tatggacatg ggaagttgta cagacccttc tgctcttcaa atg 283

<210> 2109

<211> 285

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555971H1

<400> 2109

agaacaagta gttgagaact aagaaggaga agcaaatggc ttcctcaatg atctcttccc 60
cagctgttac cactgtnaac cgtgccggtg ccggcatggt tgctccattc actggcctca 120
agtccatggc tggttcccc accaggagac caacaatgac attacctcca ttgctagcaa 180
cgggtggaaga gtgcaatgca tgcaggtgtg gccaccagtt ggcaagaana agtttgagac 240
tctttcttac ctgccagacc ttgatgatgc acaattggca aagga 285

<210> 2110

<211> 287

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555973H1

<400> 2110

ggnatggggt gtcattggcca gtcacagaag tggagagact gaggatacct tcattgctga 60
cctttctgtt ggtttggtta cgggtcaaat taagactgga gctccatgca ggtctgagcg 120
tcttgctaaa tataaccagc tcttgagatt gaggaggagc ttggtgctga agcagtgtac 180
gccggagcta acttccgtac ccccgttgaa ccctactaaa gttttcaagt ggaaaaaacc 240
tgagatcca cagagtttg agcattgaga tttgggtgcg cggtttt 287

<210> 2111
 <211> 233
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700555977H1

 <400> 2111

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 cataacaaaa aaaaaaagaa catttcagct ctaagcctct aaccttatga gttttgagct 180
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<210> 2112
 <211> 284
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700555978H1

 <400> 2112

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 tgctctaatt cttggggcct caaggattgt gcacaggatg aagttttgag gatctctgtg 180
 cctccacaga ctggtgatgt tcctttgcag accctttata gcctcaatgg tgatgttatt 240
 gcttgggggt ttaaggccac ttctagtgtt gtcaaagtga cttt 284

<210> 2113
 <211> 282
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700555980H1

 <400> 2113

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 tagtattatn ntgaaccgtg ttaagatgnt atcnnaggga aagnttcngn nacntntggg 180

tntntngnac catccngaac acataganca aaacgccact ctacgcttcc aggtctcana 240
 tggnatngnc gaccnacca gcagngcacc tgaccatnnc nc 282

<210> 2114
 <211> 279
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700555982H1

<400> 2114

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 ccaccaccaa cgccgccgca gccccgccgc gccagctctc ccagaaggaa gccgacatcc 120
 agatgatgtt agccgccgac gtncacctcg gcacaaaaaa ctgcgacttc caaatggaac 180
 gttacatctt caagcgccgc aacgacggga tttacattat taaccttggg aagacatggg 240
 agaagcttca gttacgagct agggttattg ttgcattga 279

<210> 2115
 <211> 167
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700555983H1

<400> 2115

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 gcttgaatgt ggggagtgga agcaggtggc ctacgtcaca cgtgcag 167

<210> 2116
 <211> 90
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700555984H1

<400> 2116

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<210> 2117
 <211> 281
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555985H1
 <400> 2117
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 atgttagtcc aaatgtgctt ggagcatttt gcatagacac tggattacct tgtgacttca 120
 atcatagtac atgtggaggg aagacgaatt atgctatagc cggggacctg gctaccaga 180
 tgaatttgaa agtaccgca ttataggaga aagacaattt agaaaagcag tggatctttt 240
 taatgctgca gatgaagaga ttgaaggggg cgttgatttt c 281

<210> 2118
 <211> 284
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555986H1
 <400> 2118
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 caactaatat ggcaattgaa aaccaaaca cactgtcaga gaaatcaagc caaagaacag 180
 gagaatcatg ggtgctggag gccctgatga tgacgacaat aggtggccac cgtgggtgaa 240
 gccactgctg aaagagagct tctttgttca atgcaagttg catg 284

<210> 2119
 <211> 285
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700555987H1
 <400> 2119
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tcaaagccat acaccctaca tggagactgc tgctataaga tctgccctga tgactacagc 180
 catgacaaca gacaacacag gtcattccatt gactgatgaa actggaaatc cggcgacgcc 240
 tttcgcaatg gggctctggnc acttcnnccc kannanannc agcag 285

<210> 2120
 <211> 93
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700555988H1

<400> 2120

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 agctgctnaa caccgggagt gaccanttct acc 93

<210> 2121
 <211> 140
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700555990H1

<400> 2121

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 ccttaccctc ttgcaacta 140

<210> 2122
 <211> 58
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700555992H1

<400> 2122

cctccttgcc actgccagan tgcaccacc atggganacc gtcacacccc aagcctcc 58

<210> 2123
 <211> 283
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700555993H1

<400> 2123

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gtttgggggg ggatctacat ctctagggat tatcactttc cttactctca tcagcctggg 180
aagaaatcgt tagacattca ctatntggtc tgtctttgaa cttcactttt ggttccaaag 240
atggggctat gattttgaga tcaggtagct tcaagataag aga 283

<210> 2124

<211> 283

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555994H1

<400> 2124

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tgatctagtg gcaagcaaaa ttgctgcaga acgtcaaaaa actgctgatt ctgcaattgc 120
aaacatcact tgcagcaatt cagtgaatat atatgttggg attggtgttc catggcttat 180
tgatactttg tacaacttca tagcatatag agaacctctc cgaatccaaa atgcaggggg 240
actaagcttt tcgttgattg ttttcttctc cacttctgtc ggg 283

<210> 2125

<211> 286

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555995H1

<400> 2125

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ngcagcttca aaactnccat ctttattttt cttctctcct tccattatta gaaacaccct 120
catggaatca gcagcaacag cattgnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnngagcct cagccaatga acatgaatgt 240
caacatgaac atgaacgtgg tcaacaccac agaaggaaca acacca 286


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<210>      2126
<211>      293
<212>      nucleic acid
<213>      Glycine max

<223>      Clone ID: 700556001H1

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tatgcaatgc aactgggctt tgaaatggg aaggagaccg aatactatga cgtgctgggt   120
gtcagcccta cggcatccga agccgagatt aagaaantta ttacattaag gnacggcaag   180
tgcattccga taaaaaccca aatgaccctc ttgctgcaca aaattttcag gttttagggt   240
aggctaccaa gttctgagtg acccagctca aagacaagct tatgatgctc atg           293

<210>      2127
<211>      216
<212>      nucleic acid
<213>      Glycine max

<223>      Clone ID: 700556002H1

<400>      2127
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caaacagact atnagctaca tggcagaacg ggttgtagga actggatcat tggaatcggt   180
tnccaggcna aatgcttgga aactggggag gcatgg           216

<210>      2128
<211>      277
<212>      nucleic acid
<213>      Glycine max

<223>      Clone ID: 700556003H1

<400>      2128
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acggnacggg ggtcgcggtt tattagccaa ttncgtccac tttttccgc aacggtgnaa   120
ttggaagcac aaacctgctc tgttctnctg cacaaccga agaacaagtc tcaactagga   180

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aaccaacaac actgtgtgaa gnatgcaant caaaccatc gaaatanacg tgccctggtt 240
gctcettaca tcgtgcagtc ttccatgcgt gaagtct 277

<210> 2129
<211> 287
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556004H1

<400> 2129

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tgtcaactgag tcgttgtctt gcggaggata atggacttgt tatgaacttc tacaaggaat 120
catgceetca ggctgaagac atcatcaaag aacagtcaag cttctctaca agcgccacaa 180
gaacactgct ttctcctggc tcagaaacat cttccatgac tgtgctgttc agagttgtga 240
tgcttcaactg ttgctggact ccacaagaag gagcttgtct gagaagg 287

<210> 2130
<211> 285
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556005H1

<400> 2130

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ctctttcagg tgattttntc tccacgataa agtgcgattt cgccggtgtc gttttgccgc 180
aagatggtgt cgttttcggg aatataaaat cagggttgaa gttctttctt cagcattgaa 240
tctttggta cataggttgg tttctttaga actcgattca atttc 285

<210> 2131
<211> 212
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556006H1

<400> 2131

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tagtttggtt tgtctgtnag ttggagtgtg atgtcgccgc cgacgctggt aacggaggag 120
gaggggcgga gaccgtggcg tccgattctt cgcaatcctt ggactgtttc tctcagaatg 180
gtgctggatt gaaagaacgg aattattagg gt 212

<210> 2132
<211> 284
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556007H1

<400> 2132

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tcattgttga tcggctcaaa agagaattta aggtggangc taacgttggt gcccccaag 120
taaactacag ggaaagcatt tccaaaatct caaagtgaag tatgtgcaca agaaacaatc 180
aggtggacag ggtcagtttg cagatatcac tgtccggttt gaacccatgg acccaggtag 240
tggatatgag ttcaagagtg aaatcaaagg aggtgtgtac caag 284

<210> 2133
<211> 282
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556008H1

<400> 2133

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gatttgnagc gttagtgggc tcatactctc gttttgactc tgggcctgag tctcantgtn 180
gtggaccatt cgcagaccac gctgaattgg gccgttgggc tcagcatcgc tgcggtgctg 240
tcctacgtgg caactttctc tatcggtctt gggcccatca cg 282

<210> 2134
<211> 285
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556009H1

<400> 2134

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 ttactgggtc gatccgctcc aacagtcatt aatgaacaca ttcaagtgga aggtgggttag 180
 atcctgaagc ttctcccagt gcatttcatt tcttctttgt ccagtatctt acggatagcc 240
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<210> 2135

<211> 283

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556010H1

<400> 2135

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 ggagtttgct atgtcctttg acttggcgtc aaactgtccg cggagagagc catgtcgggtg 180
 tcccctctaa tatggaagat caaacggttc ctcaacgtgg gctccgagaa gaagctgaga 240
 aaagctatta aaatgattga catcttagcc agagaagtca taa 283

<210> 2136

<211> 283

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556011H1

<400> 2136

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 ggggtctggac ctgggggttc agtcccagt catccttctt tgggagcagc ttgaagaagg 180
 ttattggctc aagggtcccc aacacaaaga tttcctctgg aagcttcaag attgttgctg 240
 tagaagagaa gaaagagatt gaagagaccc agcagaccga caa 283

<210> 2137
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 <213> Glycine max

 <223> Clone ID: 700556012H1

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 cgcgtcgccg ccgcacgctt cctcgtcgag atcgggtgcga cgggaaggcc gcgcaggagc 180
 tcgcacgtgc aatgaaggat ttccctagca ggcgcgggga taaggggtgg gagagcttcg 240
 actacactct ccccgagat tgtctttctt ttatgtatta ccgg 284

<210> 2138
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 <212> nucleic acid
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 <223> Clone ID: 700556014H1

 <400> 2138
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 ttatgactca tttaatttgt ctcatttatt taaatgctcg tgcttacatg tacagacact 180
 attaaatgtn atttcaccta tattgtataa tattggtttg aatactaaga ttatttnnat 240
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<210> 2139
 <211> 289
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700556015H1

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 gnaaccagtt gctgctagta tatgagtaca tggagaacaa tagtcttgct cgtgcacttt 120

ttggttaaaga anatgagagg atgcaattgg actgcccaga agantgaaaa tttgtgtggg 180
gattgcaaag ggattagctt atcttcatga ggagtcaagg ttgaaaattg tgcacagggg 240
tattaaggca accaatgtct tacttgataa acatctgcat gccaaagatc 289

<210> 2140
<211> 286
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556016H1

<400> 2140

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atgccctgcc gntgttccca cacctcccac acantgaaat catcatcanc agcttcttnc 180
gccacaagtc ttagatcaac aatttncgtc aattattcca aaaccacctt aagagccttt 240
tccaaatggc cccttaaaga tcgaacttgg tcggagtaaa catggc 286

<210> 2141
<211> 286
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556018H1

<400> 2141

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gtgcaggccc ggttcgggtt tggcaagaag aaacngccgc cccgaagaaa gtttccagn 180
ggtcgggctc tagtccgat aggcccctgt ggtatccggg cgccaaggcg ccgagtacct 240
ggatgggagc cttgtcggag actacggatt cgaccattt gggtag 286

<210> 2142
<211> 277
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556019H1

<400> 2142
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 ttcattgcaa ggttcttgat ctgcaccagc acttcacttt ttacccggtt atgtgtgttg 180
 ccagggtcaa cttgtatctg cagaccattc tgctattgtt ttcgaggcgt aaagtgcagg 240
 atagagcctt gaacataatg gggatccttg tgttttg 277

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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700556021H1

<400> 2143
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 tngcattggt ccgagaccaa ctgcctcgac tgtccaagac cttcttcacc agcctcctca 180
 ctaacctccc tatectcgac ggcgagggtta acctcttcnt caaaacgacg tcgcttcgct 240
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<210> 2144
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700556022H1

<400> 2144
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 ctgnaacaga gattgaggtg atcaaactctn aggttttctt gtttcagtca tccatggcag 180
 gcatgatata attgctcaga tatattatgc aaaaagactt ggctgaaagg cttcatccag 240
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<210> 2145
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700556023H1
 <400> 2145
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<210> 2146
 <211> 263
 <212> nucleic acid
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 <223> Clone ID: 700556025H1
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 tctanaccca actctgcca gctcagtcna aaccactatg ctaacatatg ccccaacctt 180
 gaaagcatcg ttagacaagc cgttactant aagttccaac aaacctttgt caccgtccca 240
 gganccttc gcctattctt tca 263

<210> 2147
 <211> 282
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700556026H1
 <400> 2147
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 ggagcaggaa gcctcttaag gtgncgatga ggccatgatt aggggaattg agaagtacat 180
 gcgaagtgga agtncangan gganaagaag aagcccgnc naatgtaact gcttggcata 240

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282

<210> 2148
<211> 280
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556027H1

<400> 2148

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ctgagaagtc tgatgtatat tcttttgggt cgtgcttttg gagctaatta ccggaaggaa 180
gccagtagat gcatcccaac ctttgggaga tgagagotta gttgaatggg ctcgaccttt 240
actgagtcac gactcgaca ctgagncatt tgatattttg 280

<210> 2149
<211> 282
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556028H1

<400> 2149

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gaggtgttgg tcttttaaag tggagaatgc aaagtactga tgagtcaatg gtgccgctga 120
caatcaactg ttggccctct tcttctanaa cgaaacttat gtcaacattg aatatgaggc 180
ttcatcaatg tttgatctgc ggaatgttgt gatctctgta cctcttccag ctcttcaaga 240
agcaccatct gttaggcaga ttgatgggga atggaggtat ga 282

<210> 2150
<211> 281
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556029H1

<400> 2150

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 ttgattctct ctattcgatt cgattgttct tggaaaccgca gtttcagccc aagctggacc 180
 ccgcgcgga ggttggttagc ggtggcgggtg gggattcgga gaagtcgcat gtcagtnatg 240
 tcaccgaggt tcgcnacgtt gacntggcgc agcaaacggc g 281

<210> 2151
 <211> 288
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700556030H1

<400> 2151

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 tgccaggatt cggttgattn atcaggacaa gacaaatatn aactccgan ntaccgattt 180
 ntgnttcgct ntagennnaa ggn cattgtt ncncaaataa tatctgctaa gcattgccgg 240
 ngatttagtt cttgctacag catattcaca tgagctgcna cgatntgg 288

<210> 2152
 <211> 287
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700556031H1

<400> 2152

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 gatattggaa ggtttgatgc caaaaatggt gaggaggaag acgtttgaat ctactgagc 180
 atgaggcctt cgacattgtt ttcatagaag cttctaaggt tgatggaata tcaagtcggt 240
 agtttgaatc aaatcaaata atgtcaaggg tagctagata gtgttga 287

<210> 2153
 <211> 295
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700556032H1

<400> 2153

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gatggaatta tgcataattg catttgcgga gaggccaaca cgaaggccaa gagctccgat 120
aagattctct tcttcttccc cgccggtttg ccctttnaaa gcaactctcc gtcattggcc 180
tcagcgaagg actcatcact ttactagaa tcttctcgcc agangctggc ctgcnnacgt 240
catcgaagca gaaagacatt ctcatgtttt ctacgangcc gaacccgata tctgg 295

<210> 2154

<211> 289

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556033H1

<400> 2154

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aaactggcta tggtagcgt tcttcggagg taaatgcgca agtttttaggc ttgctgtgga 180
agcacacaac atccgagcct ttaaaacat tctgaagng tgcgttgaac caacaaagga 240
ctacattaat ggccaacaat ttagatcaga ctctaaaaa gttaaccaa 289

<210> 2155

<211> 287

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556034H1

<400> 2155

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gaagctattg caaagcagaa gttgccaaag aggtgtttga actactacgc atctggtgca 180
gaggaccagt ggactctgca ggagaacaga aatgcctttt ccagaatttt gtttcggcca 240
cgtattctta ttgatgtgag caagatagac atcacaacta ctgtntct 287

<210> 2156
 <211> 276
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700556035H1
 <400> 2156
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 gnnnnnnnnnn nnnnnnnnnn nnnnnntttg atgggaanta acaatggaaa ctgagagagc 120
 agttctactg atgaagagtc ttcaagaaac caaggaggga aaccatcaaa gcaaaaattt 180
 caagagttta tgtcaggact gaatcatctg atactagcct tattgtgaaa gatggatacc 240
 aatggaggaa atatggacaa aaggtgacca gagata 276

<210> 2157
 <211> 285
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700556036H1
 <400> 2157
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 actttccggg agttgttget attagtgtag aaatgagtac gctggatgca acaagggctg 180
 aacttgggtc tcttgtttta tatttgggca aggctgaagc aagggacaaa atatgcaggg 240
 caatacaata tggttccaaa tttttgagta atggggaacc tggtta 285

<210> 2158
 <211> 283
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700556037H1
 <400> 2158
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 ccaaccgtga gcgctgatta ccagaaggcc gttgagaagg cgaagaagaa gctcagaggc 120

ttcatcgctg agaagagatg cgctcctcta tgctcctgga agagaggaca aacctgagcc 180
accaccagag ggtcgcttgc cccgatgccac taagggttct gaccatttga gagatgtgtt 240
tggcaaagct atggggctta gtgaccgaga tategtngct ctg 283

<210> 2159
<211> 96
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556039H1

<400> 2159

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ccaatgtggg aaagctatcc agttttttca actaag 96

<210> 2160
<211> 279
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556040H1

<400> 2160

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gttttgtgaa attaaaatag tgttaccgtt gtgtgctgtg acgaggcaat tttatggact 120
agagtttctg atctgggaac tttctcaaaa ttgattatca aacccttggc tgtctgagca 180
tactgaatta aatttgtcag attttttata atttcgtttt tgaagatttt taatgtggtc 240
tacttaataa tctcattgtt agcttttaaat tttgttcca 279

<210> 2161
<211> 120
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556041H1

<400> 2161

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tggcacctat tcttctcctt agataaacat ggcagttata tataaaacat cgtgcattat 120

<210> 2162
 <211> 279
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700556043H1

 <400> 2162
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 gacaggaagg acttcttaca agagatncag agtggttgag aggaagaaag ttggtctcaa 180
 gaaagctcgt aaagccctc aatattccaa gcgttgaggt tgggatgtta catgtatggt 240
 ctgtcttttc tttctctctg gtgtctctgg aaatgagtt 279

<210> 2163
 <211> 279
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700556044H1

 <400> 2163
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 ccaaagcatg gcttcccatg cagnatncac tgctgggtgnt tccctggcat gtcagnnatg 120
 nttgggnaac cccatnaacc tcagtgtgcc acaaggccag ctccatctgc ctctagccct 180
 gcctccttca agantgtggc tcttttcncc aaaaagaagg ctgcacctcc aaaaaaagct 240
 gnagctgctg ntctgcaa tgatgagctt ggcaagtgg 279

<210> 2164
 <211> 282
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700556045H1

 <400> 2164
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 ggccaaattg gttgtgttcc caagacgggc acagaagggt aaggctggtg attctactcc 120

cgaggagctt gcaaagcaa cgcaagtccg ggttctttct tgcctattgt gagggagaag 180
 ccaactgttg aacttgtaaa ggttacagat gacatgaagg cttttaaaagc ttattacaag 240
 cttcgacttg aacgcacaaa caaacgccat tatggtgccga ga 282

<210> 2165
 <211> 263
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700556046H1
 <400> 2165

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 nttgcatact tttgattatg ccaggcattt cctctcctgt tgcagcagaa tgcttggnat 120
 ttcttaccat ccaagcgtgg ctacattggc cttgagtact atggaagaac agtaagcatt 180
 aagattcttc ctggttggtat tcatataggt cagctccaat ctgtcatgag tcatcccgag 240
 acagaaagca aggttgcaga gtt 263

<210> 2166
 <211> 289
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700556048H1
 <400> 2166

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 aagcaattaa ttaaaatact gaatttggtta taattctttc tcaaataata ttagttttac 180
 aattatttta tttctttttc cttggattgn agccgggggtt tcttggtgtg agagaaaaaac 240
 ctttattctc tggttttgga acatctgggg tctcaattta gtggaagtt 289

<210> 2167
 <211> 284
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700556049H1

<400> 2167
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 tctctcttgg cattgntcgt gccttgctga aggtgagcga agatcataga gtacctttga 120
 gacaggaagg acttcttaca agagattcca agtggttgag aggaagaaag ttggtctcaa 180
 gaaagctcgt aaagccccctc aatattccaa gcgttgaggt tgggatgtta catgtatggt 240
 ctgtctttct ttcctcctgg tgtctctgga aatgagttac attt 284

<210> 2168
 <211> 287
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700556050H1

<400> 2168
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 agangtagtg nttngaaatn gcgaatngac tacnttcgca ctnttccgtg gcncgaattc 120
 tgnacanca gcangttggt acctntgccc gatcctgggt ctagagggtc caaantcnnn 180
 gtctgctgtg gnatctaata gttgnnctgt tccncatnaa gattgnacca ctttgagnca 240
 caatctcaag gncaacntgg gtgtngtggt gccaaangagt tagaaaa 287

<210> 2169
 <211> 282
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700556051H1

<400> 2169
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 gctggaaaat tcattctggg actcagggtta cgtttctccc ttcctcaata ttccattttt 120
 ctcatcttaa gaaggcactg cataatctcg tcattatctc acaatgcgat tcggatcctt 180
 aaatcggtgc ttggtttgaa ccaaacgata agcagtgata tgattatgat gttgtgtatt 240
 tttaattatt tatttggtat ctgtttccgt catatctttc aa 282

<210> 2170
 <211> 285
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700556052H1

 <400> 2170

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 gctgtcancc tacatgccct ncacagcacc caancatccg tcgccacgtg gtggnaaacc 120
 acaganaaat actancacca cctcagtant ctanaaaaaac ctccccctctt tcaattncac 180
 tcaataaaca gnttctcgac gaaaactact cgctcggcaa atccctnacg agcaagcacc 240
 tcattcagct agcttcanag ggtgaccaca aaaacgccat caacg 285

<210> 2171
 <211> 281
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700556053H1

 <400> 2171

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 acaaggaacc ctgatttgggt taggggggatt ggcaagtatt cgaggtcgca gatgtaccac 120
 aagagggggca tctggggccat caaggccaaa acngtggcgt tttgccccgc cacgatccca 180
 agcccaagcc cgaggccccg gcccagaagc cgcccaagtt ctaccccgcg gacgatgtta 240
 agaagcccct cgtcaacaag cacaagccca aaccgcgcaa a 281

<210> 2172
 <211> 280
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700556054H1

 <400> 2172

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 tcttttttgggt gctacttacc aaggcacact cgaccgatac cgtttctttc accttcaaca 120
 agttcaaccc agtccaacca aacattagct ccaaaaagat gctagtattt catcctctgg 180

ggtgttataa ctcaccaaag ttggcagcaa cggcgtgccc acctcgggat ctctcggctg 240
tgccctttan gctgccccaa tccagatttg ggacagcgaa 280

<210> 2173
<211> 223
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556055H1

<400> 2173

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ttaaattggn caataatgtg taacatttta aaatcattaa attggaattc caagtgcacag 120
ccacttatcc ctgccactca aataaacatt ctcaaagtgt acacattatt gttcaagttc 180
aagattgtca attcgtcata tttttagaat aaagtgtga tga 223

<210> 2174
<211> 279
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556056H1

<400> 2174

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tgattggaac agaagatgtc ctgcctgaaa agcaatctga ttatctatct tctttgctca 120
gtcctctttg tcaacagggt gaggcattgt cataaatgcc aagttattga atgctgagga 180
gactaatgcc aaaattgctg taatccagca aattattatg gcaattaatt ctctcagtaa 240
gggcttttagc gagcgtcttg taaccgctag tcgccctgc 279

<210> 2175
<211> 277
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556057H1

<400> 2175

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cctctgttgc atcctctggc tacaagttgc cattgatcaa atgtgaggcc agagttccca 120
aagccaaaga atctgaagga aggaggggtgc ccttgtttctc ttggcagcta cccttttcat 180
ctctgcagcc tccaattctt ctgccaatgc tgggatcatt gatgattacc ttgagaggag 240
caaggctaac aaggaattga atgacaagaa gaggtta 277

<210> 2176
<211> 278
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700556058H1
<400> 2176

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gtttgtttgt ggagctggag ccggagttgc tgtttccatt cttgcctgcc caactgaatt 120
gatcaaatgc aggttacaag cacaaagtcg cttgccggct ccgaaacanc taccgtggct 180
gttaagtatg gaggacctat ggatgtggcc aggcattgtc ttaggtcaga agggggcgctg 240
agaggtcttt tcaagggtt ggttcccata tgggacgt 278

<210> 2177
<211> 278
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700556059H1
<400> 2177

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acaaggaaga gaatccccgt gtgcccatca tcgtcaccgg taacgatttc tccacactct 120
atgcgcctct catccgtgat gggcgttga gaagttctac tgggcaccaa caagggatga 180
ccgcattggt gtctgcactg gaatttttcg caccgattca attcctgaac aggacgttgt 240
caagattggt gacaccttcc ctggccaatc cattgatt 278

<210> 2178
<211> 279
<212> nucleic acid
<213> Glycine max

<210> 2181
 <211> 277
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700556064H1

<400> 2181

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 gaaggtagaa gctaaggaag tagtgtggga atatggtagt taaaaaagcc aatgggtctga 120
 tggattcaat ttaaaattca ttagaccttt tggagtacta tgaaggaaga catcaagaga 180
 attcatgaag aatttcatgc tcatgggtgtg atccctagag gttgcaactc tttttttgcc 240
 cttattttcta aagtagatga tcctcaaggc ttagggg 277

<210> 2182
 <211> 284
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700556065H1

<400> 2182

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 gaccgcaacg gcgacgggag aataacgaag aagganctga acgactcgct ggagaacctg 120
 ggcattctca tctctgacaa ggacctgacc aaatgatcca gaggatcgac gtcaacggcg 180
 acggttnctg ggacatggac gagtttgggg agctgtatca gaccataatg gacgagcgcg 240
 acaatgagga ggacatgagg gaggccttca acgtcttcga ccag 284

<210> 2183
 <211> 282
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700556066H1

<400> 2183

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 ancantcgaa gaancagagt gcattggagt ggaacaacat ttgaacaagt tgaaaattga 120

acactggcta agaagatctg ttgggacact gacatcaaag gcangttcgg ggtaaacata 240
 tttgtcacag tctccaaaac acccaacttg aagagcattg tg 282

<210> 2184
 <211> 282
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700556067H1
 <400> 2184

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 catggcggtg gcaccttaca ccaccggttc cgcacctcgt ttttctctc ctnctacttg 120
 tagtggtggc cacaaagctc tattccgatt gaaacttcaa gctgacgagt tctttccgag 180
 cggcaagacc taacgtaanc gctgaatttt atggaaaagt tcacaacact cttcactgtc 240
 ggtatgctaa ccacaatcca tcaatggcac gtattcgaat ga 282

<210> 2185
 <211> 280
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700556068H1
 <400> 2185

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 aaaccatgga cgtgggtcag atgcagagac agtggatcga ctacaccaa tccctcttcc 120
 tcgagggctt cctggatggt cagtttctca acttcagcag cttcaggatg agaacaaccc 180
 tgactttgtg gtcgaagttg tctctctctt ntttgaagat tctgaaaggc ttctcaaaga 240
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<210> 2186
 <211> 280
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700556069H1

<400> 2186
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 acaagagctc actttcataa agacacgcac acatattctt gttacacaaa atggaccaac 120
 aagagggtaa cacgtggaca atgccacgtt ctgggcggtt gancagcgaa accgccgccg 180
 tcttcgccgc tcttactctc tgttgctcac ctccacctcc ctctcgtac tcttctcgt 240
 actcgtntctg gtgtntctgc tcatcgtggt tccnacgttg 280

<210> 2187
 <211> 279
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700556071H1

<400> 2187
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 gcttcttgta tcatcatctt ctcttacctt ctacgcggag gctgcaagac aaagtcttgg 120
 accaagatca ctccaatctc catttgcttc tccagaaaag cctcctttct tgttaaggca 180
 gctgctaccc cccctgtcaa gcaaggatca gacagacctt tgtggtttgc atcaaagcaa 240
 agtctttctt acttggatgg cagccttccg ggtgactat 279

<210> 2188
 <211> 276
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700556072H1

<400> 2188
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 gctcaaaaca tctccgatgc ggaggaggga accttgga ttggaatgga ataaagaact 120
 gtgtctggag ttgctgggcc attgtcatc ttgataaagt taaggacact aagtttcaag 180
 agattgttaa tattcgcttg ggagatggaa ctactcggcg tggacaagtg ctagaagttg 240
 atggtgaaaa ggctgttggt caggtctttg agggta 276

<210> 2189
 <211> 276
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700556073H1
 <400> 2189

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 gttaacttac ttagtgctgt tagattattc atgnacatgc tgattgggta atattgctgc 120
 ctattctttt gtcattattc agtatcanat ttttttcttg tgactgagct ctgcaaattt 180
 ataggtcaat tacttccctt caaggtatga tcctgttcgt catgcagaaa ggttccccat 240
 acctcctgct atctgcagtg gaaggcgtga aaagtg 276

<210> 2190
 <211> 172
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700556074H1
 <400> 2190

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 ccgtcgcagc ctgctcctac ctctgcctt cgaagatctc tttaccacgc tcaaccgccca 120
 catccaggct tccgcatacg acaatgcgtc aantcacgga tcanattcac nt 172

<210> 2191
 <211> 275
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700556076H1
 <400> 2191

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 cttaggaaca ctantgctag ggccttagtg ttgttgcttc tgcacttggt attcctgcac 120
 tgttgccatt cttgaaggct gtggtcagag taagaaatca tggcaagcta ggcacacagg 180
 gattaagatc gtgcagcaga tcgccatttt aattggttgt gcggtgttgc cacatctgag 240
 atctcttgtg gaaattatag agcatgggtc gaatg 275

<210> 2192
 <211> 281
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700556077H1

<400> 2192

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 accttcant tcaatttcct gcttgcccgt cttcaactca aaccgactan aaggcgcgctc 120
 gatactgttc ttttccgcaa cgcccacgcc acgcccacgc gcttcacgtt tcttttgcg 180
 atcccccttc gctccaaatg ccatccattc tccttctctg tctgttacga atgangcact 240
 gaatgttatg atttctgggg ctcttgcttc tggtaaagga a 281

<210> 2193
 <211> 281
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700556078H1

<400> 2193

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 aggcctccat ggaattgaat taataattca attccatttc tattaataaa agagtgaaag 120
 cagaaattta aatggaatgt atagggtggg gcaacaatat cataaaaaat acttagtta 180
 aaaaacgaaa atactgtatt gcaattgtat tgcaattcga aacgaaatat agttcgagat 240
 cattgtatta tttttgtact atatnaatct taatcttaat t 281

<210> 2194
 <211> 284
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700556080H1

<400> 2194

ctagggagaa gcaccagcat tgcttggtga tgacntgcng gatggggctc tgaatggnc 60
 tgaantgaaa aatggaactt gcaaaacaac tgctactggt ggcgataaga tggtagtat 120

atgcaatatg ctacgaatat cagcataatt ctatgtatgt tgttactcat aattagatta 180
gtgcctagtc aaatcttctg cctaaagcaa aaactgggcc tccattttgt tgacagtatg 240
tcattggtgg ngtgatgatg gaacttttgt ccattgaagt tcaa 284

<210> 2195
<211> 262
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556082H1

<400> 2195

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gttggtaaat cttcatctca atacaaagat gcagatattc tcgtcttcaa cactggccac 120
tggtggacca tgataaaact tctaaagggc aggactatta ccaagaaggt agccatgtgt 180
atgctgaatt aaacgttctt gaggcattca gaagagcttt aacgacttgg agcaagtggg 240
ttgatgccaa cataaatccg tc 262

<210> 2196
<211> 249
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556083H1

<400> 2196

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caccaacctc tccctttccc ccttttcatt tcttcctoga ttttccattt ccataacctt 180
agtcaccttc ttctttcatc tttctcccta actgtatcga gggaaaaata tggcggaaga 240
acacagatg 249

<210> 2197
<211> 277
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556084H1

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tttgtggnct atatatanct ntttcgtccc ccttgtgaag atgtatanat gtgcttgctg 120
ctcggctaag catggaagtt tgtgatctgt ctagtatttc attctagtta aagcatactt 180
atccctgcat ctgtatattg ttttggtcag atttcagaaa gctaggagta caanatgata 240
gcaatcagtc ttcataaggta gaggggcccc cctgaat 277

<210> 2198
<211> 278
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700556086H1

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cgacgccgn ctggggctac gttcgggtgc ggtgcggtgg accgcgttcc cagcgtancc 120
attgatgaaa ggccgaatcc tgagatcgaa gcaatccaag ccatccaaac cttaaaacgc 180
ctncaccgaa ccaancctcc gaanctctnc tccctcgtct ccaacaccct cangcgctc 240
atcaaatccg acctccttgc tactctgcgg gagctcct 278

<210> 2199
<211> 274
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700556087H1

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ttattctttt gattctcaaa ttctcttcgg ttttttccc tttctttttg gtttcattga 180
gtatgggttc ngtggactgt tatecttctc gtacggacga tgctgccgtg gtgtctttgg 240
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<210> 2200
 <211> 258
 <212> nucleic acid
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 <223> Clone ID: 700556088H1
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 aaagaatgca attgaatttg cttgaagggtg tggaagacac tggaaaggga gctggcacia 180
 gctcagaaat tgtggaggta aaaccagcga tgaatgattg gtcgccatct ggtgcttttg 240
 taacacctca agttcgca 258

<210> 2201
 <211> 276
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700556089H1
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 agactagcta agatgaagaa ggaacaattc ttataaattg cagtagaggg cctgttattg 180
 atgaagctgc acttgtggag catttaaaac ataaccaat gtttcgagta ggccttgatg 240
 tgtttgagga agagccctac atgaaacctg ggcttg 276

<210> 2202
 <211> 276
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700556091H1
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 cttgtttggc gncngcggcg gcgtaaactc aaacaacatt nggaatncnn nnnnnnnnnn 180

nnnaccagct tcgtcgaaag ngaaggnagt ggaagtggna gtngangagg agctgccatg 240
gnttcaggaa aaggctttgg acctggtcga gttcac 276

<210> 2203
<211> 280
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556092H1

<400> 2203

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ttccaggaag ggagtgatgt tcttcttaga gaggtgagtg cagagcaaaa ggtggggcac 180
ctgnattcaa agttgcaatt ttgggggctg ctggaggaat ggtcaatccc tntctttgct 240
gnatgaagat gaaccattg gtttcagttc ttcattctta 280

<210> 2204
<211> 280
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556094H1

<400> 2204

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atagtgacca ntccactcaa cgtagcacta ttcgtggaac aataggaaaa gagacagaga 180
cagatataga aatcctgacg gtgaaattcc ctagtgcaga ggctgggtta cctgagggat 240
gcgaaaatac agagtcaatc ccctcccctg acttggtact 280

<210> 2205
<211> 281
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556095H1

<400> 2205

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 ctctctttat gcccgccgct gttcaggtca atccgcagcc cctgcacctg ccctgctag 180
 cgacgggtcc tcccttgatc aagggatagc ttatgtgttg atgttgctgg ctctgggtact 240
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<210> 2206
 <211> 288
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700556096H1

<400> 2206

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 aacccagtcc aaccaaaccat tatgctccaa aagatgctag tatttcatcc tctgggggtg 180
 tacaactcac caaagtggc agcaacggcg tgccacctc gggatctctc ggtcgtgccc 240
 tttangctgc cccaatccag atttgggaca gcgaaaccgg caaggtag 288

<210> 2207
 <211> 274
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700556101H1

<400> 2207

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 agcactcggc agataacatt ctccaagagg cgcaatggat tgatgaagaa agctcgcgag 180
 ctatccattc tctgcgatgc gaaggtggcg ctgctcatct tctccagcac cggaaagctc 240
 tacgagctct gcaacggtga cagtttggcc gagg 274

<210> 2208
 <211> 298

<212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700556102H1

 <400> 2208

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 cacagtagtc acacnccacc tttagcaaac ctcaactcag acgctctcac atagcactac 180
 caacttcaac caccatttca ttgctcgnc tctanncncc tccaaacgga agccaaagcc 240
 gctgtcagca tcgccaagga ccagattgtc tcttctctca cccaagtgga gaaaacgc 298

<210> 2209
 <211> 290
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 <223> Clone ID: 700556103H1

 <400> 2209

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 gaagttgacc atgtacaacg ctatcgacca ttttaagtacg aagatttgag ggatttcaga 180
 atcaccacag gaaagagggg tggcgaatcc ttgatcaata tcgcatttgc tagtcattta 240
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<210> 2210
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 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700556104H1

 <400> 2210

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 aggcttgatt gcttgaacgg catctttttg ttcttgttct ttcttcttcc tctcttgac 180
 ttacatgggg gctcgttgct ctaaattctc tttctgctgg ttccactctc acctcaaacn 240

2211 2212 2213

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<212> nucleic acid
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<223> Clone ID: 700556105H1

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ttctcggggc cctcccggc cggccccaag cnnnnnnnnn nnnnnnnnnn naggatccga 120
atgtccctcc gcgagaacgg cccctccatc gccgtcgtgg gcgtcaccgg cgcgctcggc 180
caggagtcc tctccgtcct ctccgaccgc gacttccct accgctccat tcatatgctg 240
gcttccaagc gctccgctgg cggccgcac accttcgagg acagggacta c 291

<210> 2212
<211> 293
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556107H1

<400> 2212

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gggcgggtatc ngccttgagg aaatcaaaaa cgaaaacgtc gatctggaaa aaattccagt 120
agaggaagtg ttngagtcgc tgaaatgttc aagagcaggt ttaacatcag acgaaggagc 180
cagccggctt caagtttttg gaccaaacan attggaagag aanaggaga gcaaactttt 240
gaagtttctg ggtttcatgt ggaaccctt atcatgggtc atggaagctg ctg 293

<210> 2213
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<223> Clone ID: 700556108H1

<400> 2213

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 ttcccagagga gaggcctatt gttgttctct ctgctatggg aaaaacaaca aacaagcttt 180
 tgctggctgg agagaaagct gtgagttgtg gtgttatcaa tgtatcaagt attgaggagc 240
 tttgctttat aaaagacctg catctaagga ctgtggatca gcttggtg 288

<210> 2214
 <211> 292
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 <213> Glycine max
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 <400> 2214

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 aaaagcttct ttgtctctcg tgccgattct ccaccactat tcccttcacc ccaatcacac 120
 tttccggtag ttgttgctat tagtgtagaa gatgagtacg ctggatgcaa caagggctga 180
 acttggtctt cttgttttat atttgggcaa ggctgaagca agggacaaaa tatgcagggc 240
 aatacaatat ggttccaaat ttttgagtaa tggggaacct ggtactgctc ag 292

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 <211> 223
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700556110H1
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 ttggggttca actcctcctc atgaattctc tctctcccaa tcaggattat gtagagcaag 180
 tcaagttggt gattgttcc cgactgtgtc tcctgaaatt att 223

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 <211> 287
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 <213> Glycine max
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<400> 2216

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ggaaatcttc tcaagtatctt gatttcaccc tatacaatga aaaacttgag gagggttatg 120

agagacttaa gaaactattg ggacttgacg gtttcacac tgctccacct aaatccggac 180

ctatagagat tgatttacca atggaccatt cagtgtccaa aattgataac aaaatcatca 240

taaactgcat ctctcagga gaaaaggaat ccaagaattt gatcatt 287

<210> 2217

<211> 286

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556112H1

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ctggaatata agagacatgg ctgagaaatg actccccagt ggtggccaag acatcaattg 180

caaaggcagt ggggtgattg ttttatgatc gaaggccctt ccgtgagata gattgtgcct 240

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<210> 2218

<211> 285

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556114H1

<400> 2218

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aaaggcaacc aattgggtaca gcagctcagg gtggtggtga caaggactac aaggaggcac 120

ccccagctcc tttgtttgaa cctggtgagc tcaaatacatg gtccttctac agagctggaa 180

ttgctgagtt tgtggcaact ttcttggtcc tctacattac catcttaact gtcattgggtg 240

tnaacaggtc accctccaag tgtgcctctg ttggcattca aggca 285

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<223> Clone ID: 700556118H1

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tcatntgnta cttctttggg ttggttcgca ttctagtggg gaaaatatct catgtggtgt 180
gatnttnact gcaggatgtc tctcaagatc tgtctgggga gtgaagcna attngattag 240
tgatatnaag gagtaagatc tcattcaaca cactaaacna tancngatt 289

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<223> Clone ID: 700556119H1

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gaaagagtga agcttttctc aagaagaaac tcatgttccc agaatggctt cccctccttc 180
cccaccccca tgtcgttttg ctgctctctc tccattttct tgtacaaatt tctcaatatt 240
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<210> 2224
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<212> nucleic acid
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<223> Clone ID: 700556120H1

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 gtctttccgg ggcttggttg tcaaagccgc caccgttggt gcccccaaat acaccgcgat 240
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 tgcntgctat ctntnagtna gggctncacg attcatagct tgttcncggc taggtcgtgg 180
 cctcggtncat tgctaannnn caccgtcatt aactatcatc agatatttat tcatgttact 240
 gtgaaaaagg gattaaaggn aagtattaaa ctcttttagag agatttgt 288

<210> 2227
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agcatcctcg ccactctgggc caccgaagtt atcctaattg gtgctgttga gggttatcgt 240
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ggacactcag ctaatggtgc tgtggcccaa ggttccatt ctgaagggga tataaacaac 180
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<210> 2229

<211> 286

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556126H1

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ctccatggga actgggaagt acaccatggg caatgatttg tggatggac cagacagagt 180
gaaatacttg ggacccttct cagctcagac cccttcatac ttgaaaggag aattccctgg 240
ggattatgga tgggacactg ctggcttatc tgctgacca gaagca 286

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\subset	0.05
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∂	0.05
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\sum	0.05
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\propto	0.05
∂	0.05
\int	0.05
\sum	0.05
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\subset	0.05
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<400> 2231

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<400> 2232

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tcgacaatta cctctccac atcatcaaga accgcaagct gg 282

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ttttcggcct caagttatct cattcttctg tttcatctat cccttcactt tottactca 180
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<223> Clone ID: 700556131H1
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aatgggatgt caatgatcca gcctcagctg aggggttcac agtgattttt aataaggcca 180
gggatgagaa aaagacaggt ggcaaccag agtcaccagg aaagactgct actgatcttc 240
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<223> Clone ID: 700556132H1

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 tgaatgtgtg atacttaaat tcatatcctt aaaatttaga aagaaaacaa aaagacaaat 180
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 tcatcggcgc cgcgggaac gacgtcgtcg atgtcgttga cggacacggt gagggggtcg 180
 caccggttca agatcacggg gtattcgtcg tcgaagggga ttgggattgg gaagtacata 240
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 ctttgcagnt tagtgggctc atactctcgc ttttgactct gggcctgagt ctactgtgg 180
 tggaccattc gcagaccacg ctgaattggg ccgttgggct cagcatcgct gcggtgctgt 240
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 acccttcctc agcatcagct ctcaccatca aagctgcttc ctatgctgac gagctcgtca 180
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 <223> Clone ID: 700556136H1

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 gtgacacaac agtagagaga cgagtttatt gctctgccgc tgctcaatca ccaccaccag 180
 catggccagg aacagctatt cccgagcctt ctgatttcaa gacatgggat gggcaaaaac 240
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 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700556137H1

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 aagcatcgat ttcgaaggcg acaacatgaa gcatgaaaat agagccagcc actttttatc 180

gttaataatg ttacaagcaa caagataaaa tacgctcttg gatgcatgcc cctatctccc 240
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 <223> Clone ID: 700556138H1
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 cgtgatggca ttcagatcaa tggtccggag ggaatccgtg cttacaacag gaacaacggg 180
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 ccaccaactc atacgaaacc cgaactcgac gccactgtca aaatggagga ggccgaagac 180
 gaaccagaat cagttcgaga cgatcccata gacgaagata tccctgaaga agacacagtt 240
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 gagagacgat gttgaactcg ttgccgttaa cgaccctttc atcaccaccg attacatgac 180
 anacatgttt aaatacgaca gtgttcatgg aacttgggaag catcacgatg tcaccgttaa 240
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<210> 2246
 <211> 284

<212> nucleic acid
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 <223> Clone ID: 700556143H1

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 agacttgatg aaattgcagt tgtcaggcat tgatgaaact cagcaaccat tgtcatctct 180
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 agccctttca tcaaagatca cggttcatcc agatgggtcaa atga 284

<210> 2247
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 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700556144H1

 <400> 2247

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 atactggaca aaagattaaa aagaaggttc aatttggttg tgactggac ttgaaacctt 180
 ttgtcagtgg ctcaaagat ggagatgtga agtactctct atatggtgtt ctgggttcattg 240
 ctgggtccag cactcatctg gacactatta ctgctatgtt c 281

<210> 2248
 <211> 282
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 <213> Glycine max

 <223> Clone ID: 700556145H1

 <400> 2248

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 gggcaaccat gactacaggg gtgatgttga agctcaattg aatccaatcc ttcagaaaat 180
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282

<213> Glycine max

<400> 2249

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<213> Glycine max

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 gagccttctg atttcaagac atgggatggg caaaaaccta tttctgtctt aggatctacg 240
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 acaaggccct caacatcatc ctgaacccaa acggaaccct cacacgctta agcattcctc 180
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 ttttgaaag gctgttccaa aaactgcaga aaactttcga gctctttgca ctggggaaaa 240
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<210> 2254
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 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700556152H1

<400> 2254

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 tgatgacgac cctatatattg gccatgtaag tcttgagaat tctgatgagc tgtggtcttc 180
 caaagacgtg agtaacagca cagtacccat actcttggag acaccaaacc caacaagtgc 240
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<210> 2255

<211> 284

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<223> Clone ID: 700556153H1

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 actagacatg ttttgcata taccaacttt gtatccgtcg ttatatggct tgacaatttc 180
 aattttgttt gtnatttgca tcaagattca gtttagttaa atgatgtgtt ggttttctta 240
 gttgtagaga accctgaata gtattattga aatattacga attc 284

<210> 2256

<211> 285

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556154H1

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 actcgtcctt ggaagaccac tgctttctgt cgtaggcttg ctcgcaattt tatggcaatg 180
 gccaccacaa gagaggcagc cgcagcagaa gttgccgcca caactgacct ctctattgcc 240
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 <223> Clone ID: 700556155H1

 <400> 2257

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 acccagacaa gagcaatgat ctagctcgtc ctgttcttgg aggttctagt gcctatccat 180
 atcctcgtag gggaagaact ggtagaaaac caacaacaaa agactctaag agtgagtcac 240
 catccagcag cacctacatc ccaagagatg agaactttgg tcactt 286

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 <223> Clone ID: 700556156H1

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 ctgccaggat ttgaattctt tcccgacacc aaggtcgca ttcttgggtg caaagnntcg 180
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 <223> Clone ID: 700556157H1

 <400> 2259

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ctggctatgg tgagcggttct tcggaggttaa aatgcgcaag ttttaggctt gctgtggaag 180
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 gtgcaaagtt ggaggctttg ttgctgaaat gtggctctc caatgctgmn nnnnnnnnnn 180
 nnnnnnnnnn nnnncatttg tcatgttttt gcaaaaccag aaagacactt gttcagagtc 240
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 <223> Clone ID: 700556159H1
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 cacgtgccga tgctccccct tatgggattg attaccctcc aagtcataga ccaactggtc 240
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 cttgtntctgt tctgtagtgt gtttncagtt ttnaagtttt gagcttcact aacttcagca 180
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<400> 2264
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 tccttgtgtc tcgaaaagta tctcataact tttcaggctg aagaagttga tatgacagct 180
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 aagatacttt tagcatggag tcgaaagtct gaccatttag 280

<210> 2265
 <211> 177
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700556163H1

 <400> 2265

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<210> 2266
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 <223> Clone ID: 700556164H1

 <400> 2266

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 gcggcgagg cgatggccgg gagccacctc gacgaggtca agcgcatggt ggaggagtac 240
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 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700556165H1

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 tggccggtca tacaatgatc agttgttttag tgctggggca gatgtccttc acagaattgg 180
 ggaggatggg agaattatac aggaatttat tcaacttggg gctaaagcta aagttgctgc 240
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<210> 2268
 <211> 287
 <212> nucleic acid
 <213> Glycine max
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 aacttgcttt tcatccacca cgcttgcaac tcaacaaaaa ttcacacca ataaggttcc 180
 ttgttcgggc tggtagaact gagtccaaag gtgttacctt gggcttcagg gccccacaat 240
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<210> 2269
 <211> 285
 <212> nucleic acid
 <213> Glycine max
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 cttcgctgct ggcacggccg aaaagactca ccccttgang tcgttggtgt caacgacagt 120
 ggtggtgtca agaatgcttc gcacctgctt aaatatgatt ccatgctggg aacttttaaa 180
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<210> 2270
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700556168H1
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<400> 2273
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ggacagcatg gctgagaaga tgcttgccag agagatcaag gagggcgact ctgttatagt 180
ggatgttgat tctgatggta atgtgattgt gctcaatggg agcagcggac ccccgaaatcc 240
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<210> 2274
<211> 268
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700556172H1

<400> 2274
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gctctactnc tgaccgtgtn tcaactctct tcnatcatt ancgggcctc aagtcacatt 180
cnccatgcaa agcagcagcn acgtcctcac gtagaagggg tgcttgcgcn tccaccagcg 240
tngtnccgca gctgcggttg agacactg 268

<210> 2275
<211> 283
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700556174H1

<400> 2275
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atttgatgct cctcgtgttt ttcttttcca tcttttaagc gttttcgacc ctctccgacc 240
atgggaacct gcttttccgc caccaaagtc agcggctccc acg 283

<210> 2276
 <211> 228
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 <213> Glycine max
 <223> Clone ID: 700556175H1
 <400> 2276
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 ttgccttgct ctaagctcct ccttgttcga ggtgtcaatg gccggttctg ctttctgctc 180
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<210> 2277
 <211> 280
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700556176H1
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 acgtggtagg ggcaccagta tagtatgtat gtaaataatt tgcacgatgt aatgttatga 180
 aggaggaaac tgctaagcac atgtttatgc ttttattctg taattctcta tgctagctag 240
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<210> 2278
 <211> 277
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700556177H1
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 tgggtggagg aggcggcgaa cccgatacga atggtgtctg gcgtggaggc ggaggtggtt 180
 cgggtgatcg gggagtgccg gcgtgcgttg aagtttgcta ggttcgtgag caggttcggg 240

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277

<210> 2279
<211> 281
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556178H1

<400> 2279

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atcaccaccc ccgccaacgc tcaactcttc gaccagaaca tcgacaagga caccgcctcc 180
ggccaccaca tccgcgtcca catcatcaag ttccccaacg cccacgtagg gctaccggaa 240
ggcatcgagc acctctccgc cgccaccaac aatgaaaccg c 281

<210> 2280
<211> 284
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556179H1

<400> 2280

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gccatcgccg cttcacggca tcggcatcaa ctacggcacg ctcggcgaca accttcacc 120
gcccgcggcg gtggcgaact tctgaagac gaagacgacc atcgaccgcg tgaagatcta 180
cgacgtgaac ccggacatcc tgcgggcctt cgccggcagc ggcattctccg tgacggtgac 240
cgcccccaac ggcgacatcg ccgccttaac caaaatcgac tcgg 284

<210> 2281
<211> 253
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556180H1

<400> 2281

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 atgtcttccc aacgcgcaga tctagcgtgc cggatcttcc cggagcccga tgcctccgan 180
 atcgaccact tcgaccggtt accggactcg ctctctcttt tggtttncaa caagatcggc 240
 gacgtcaaag cnc 253

<210> 2282
 <211> 283
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700556182H1
 <400> 2282

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 acttttgaag aacatgaccc ttcaatacct caaggacatc accacaacat tcccgagctt 120
 tgtatttcat tcacaagtag acgatacttg aagataattt ctcccatggc ttcttctttt 180
 gggctgcatg gccacttttg tacaaaaaag ggcattggcag acagccttgc tttaccttac 240
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<210> 2283
 <211> 286
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700556183H1
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 ccattttctc ttacacgcta ccttcttcca ccaaacttct ccttctcccc tctcactctc 180
 actctttcca tggctgcttc accccaatcc tccgctccaa ctgtgtcgcc tggatgatgt 240
 aacatcgaca aagatgggtg atttcaattg attcaagctc atcagg 286

<210> 2284
 <211> 283
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700556184H1

<400> 2284

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taatttcagc cgagaaggct caccatgagc agctatcagt tggtgaaatc accaacagtg 180
cattcgagcc atcatctatg atggccaagt gtgatccccg ccatggcaaa tacatggcgt 240
gctgtctcat gtacagaggt gacgtagtgc ctaaagatgt taa 283

<210> 2285

<211> 282

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556185H1

<400> 2285

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agtctgaaat caagctcttt atttgagaa tcgctaagag tggcctccaa atcaacaata 180
aaggtttcaa agacaaagaa tacttcactc gtgaccagat gtgaaattgg tgacagtctc 240
gaagaattcc tcacaaaagc aacaccagat aaggggttga tc 282

<210> 2286

<211> 282

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556186H1

<400> 2286

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agctatggac cacaacatct aatctaactt nnnnnnnnnn nnnnnnnctc ctcttaatta 120
ttcttttgat tctcaaattc ttcttcggtt tttttccctt tctttttggg ttcatgtagt 180
atgggttcgg tggactgtta tccttctcgt acggacgatg ctgccgtggg gtcttttgat 240
tcgctgcctt tagggttccg attccgaccc accgacgagg aa 282

<210> 2287
 <211> 264
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700556187H1
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 cgaatagcta atgtcagatt ttccataccg ccggcaagag aaattattaa atggttcagg 180
 attaggatta cgtcaatddd catgtgacac aagtttttct tagtttcgga caaagaatga 240
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<210> 2288
 <211> 276
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700556188H1
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 caccacctct nanncgccct cctccctct ctcccacccc atctacctna tctggggctc 180
 caacaccggc gtcggcaaaa ccctagtctc cgccggtatc gccgccgct tctcctctc 240
 ctccccanc ncctcccaat tccactacct caagcc 276

<210> 2289
 <211> 259
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700556190H1
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caacttgctc actgtcattt ctggatctgc tgagagagct ccaactctct aaatcattca 180
tcttcatggt tttctccaat cttacttaat gtacaatata tatcactgag atattaaggc 240
atttggtttt gttccttgg 259

<210> 2290
<211> 259
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700556193H1
<400> 2290

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tgtcactgga gaaggctctg ttgagaacct tgcaaaacat ctcagtgacc ctnttggtcaa 120
caacttgctc actgtcattt ctggatctgc tgagagagct ccaactctct aaatcattca 180
tcttcatggt tttctccaat cttacttaat gtacaatata tatcactgag atattaaggc 240
atttggtttt gttccttgg 259

<210> 2291
<211> 279
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700556194H1
<400> 2291

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ctcctccagc gtggttacac cgtccatgcc accgtccaag atatcaagga tgaaaatgag 120
acgaaacatt tggaggaaat ggaaggagca aagagtcata tccatttttt tgaaatggat 180
cttcttgaca tcgactccat tgccgctgcc ataaagggtt gttccggcgt aatccacctt 240
gcatgtccta acatcatggt caagtcgaag atcccgaga 279

<210> 2292
<211> 282
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700556195H1

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 gcggacctan tatnctact actactctac tctatttaca cggaagaaca aaaaactatn 180
 nnnnnnnnnn nnnnnnnncc ccaaagcggc tcggttaggg tttagtttg taccatttcg 240
 tgtaatctaa tttttcatcc gtaaaaatct aattttgagg cg 282

<210> 2293
 <211> 285
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700556196H1

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 cccagtccaa ccnaacatta tgctccaaaa agatgctagt atttcacct ctgggggtgtt 180
 acaactcacc aaagttggca gcaacggcgt gccacctcg ggatctctcg gtcgtgcct 240
 ttangctgcc ccaatccaga tttgggacag cgaaaccggc aaggt 285

<210> 2294
 <211> 96
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700556201H1

<400> 2294
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 gcnattagca gatttncngc agagtgcctt anactt 96

<210> 2295
 <211> 270
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700556202H1

<400> 2295

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 gatttgtaga agtttgatcc atggcagctt ccagaaattg gtttttacgg cgagaaagaa 180
 tggtaattct tttctcctcg ggaccggaaa taccggaacg gttcacggcc gaaccgcgcc 240
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<210> 2296

<211> 266

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556204H1

<400> 2296

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 tatnttgaac gtgccagtgg ccttgntgat agccgactcg gcgtgggtcca agagccaccg 180
 gatgggtctt gncgtcgaac ttgtggtcga tntcttnggt nanctgnaag atccgggcga 240
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<210> 2297

<211> 267

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556205H1

<400> 2297

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 caagaaaagc agcaacaatg tcgggtcgcg gaaaggggtg gaaggggtta ggaaaggag 180
 gagcaaagag gcatcgcaag gtgctccgcg acaatatcca gggaatcacg aagcccgcga 240
 ttcggagact ggcgagaaga ggtggcg 267

<210> 2298
 <211> 267
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700556206H1

 <400> 2298

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 gaatccgccca gcgtccatgg ggaaagtggg ctgctgagat tcgcgaccca agaaaggggg 180
 ttcgtgtttg gcttggaaact ttcagcactg ctgaagaagc tgcaagagct tacgatgctg 240
 aagcaaggag gatccgtggc aagaaag 267

<210> 2299
 <211> 95
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700556208H1

 <400> 2299

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<210> 2300
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 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700556209H1

 <400> 2300

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 atcgttccca gccttggtgcc accatgaatc ccgaatacga ttatttggtc aagcttttgc 180
 tgattggaga ttctggtgta ggcaagtcac gtcttctcct gaggtttgct gatgattcat 240
 accttgacag ctatatcagt accattggag tg 272

<210> 2301
 <211> 272
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700556210H1

 <400> 2301

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 tgcgtgccaa tcacacggcc ttctcancac tgcncttgtn ctctcacca ccctcctccn 180
 ccacccccac gtctannnt tcaacaccct catcagagtn ttctcccaat cccttaccce 240
 gcacaccnnt ctntnnnnct acacgcacat gg 272

<210> 2302
 <211> 269
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700556211H1

 <400> 2302

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 acctgaaaca ctgcctcaag aggtccttgg gaaaatggga gcacctccaa agagtgatgt 180
 accaattatt acaccaacn gagctacctg aggctgatgg cttattgctt gggttcccca 240
 caagatttgg actgatggct gctcaattc 269

<210> 2303
 <211> 269
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700556212H1

 <400> 2303

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 tctcaaaaac tctcttttcc ctcaatcaca ccaatccttc tacttcacct tcaatggcaa 180

acccctcccc gacaaaaccc ctctttccca attccccct ctctccaccc tctctctccg 240
ctccccgctc cttggnggcg gcggagagg 269

<210> 2304
<211> 268
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556213H1

<400> 2304

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taatattggg tcatagaact gtttatcaga ggcagcaaat cagaagagtc tatgaggaaa 180
ttttccagga ggatcttggt aaacgcctag agtctgagat caaaggagac tttgagaaag 240
ccgtgtaccg atggatacta gaacctgc 268

<210> 2305
<211> 271
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556214H1

<400> 2305

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atccccgatgc agacttcctt gatgacataa atggaaaatt gaaggagtat gtgctggagg 180
aactcaatgt acgatccctt gtaccatgta atgatacttn aaaatatgcc actttacgcg 240
ccgagcctga atttagtggt ttaggcaaaa g 271

<210> 2306
<211> 272
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556215H1

<400> 2306

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catcaactct gctttatacc ctggggggcn tcctgtgcct actcagtcac ccaaacttct 180
aaggtttgtt gacacaactg aaatgacaag aggaccacaa gatactcctg gctactgggt 240
tgtgtctggg gcaaggcttt ttgtggagaa gg 272

<210> 2307
<211> 77
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700556216H1
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catttataaa gagaaat 77

<210> 2308
<211> 265
<212> nucleic acid
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<223> Clone ID: 700556221H1
<400> 2308

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attgaaattg aataagtaga caatttaatt ggattggtcg aatggnatca naaaaatgga 120
gtactaactc ccatttctta ttattattg antnaaccga tcnacttgct ttgtnatcga 180
acatttcttg ttgattncaa aaatttnccg gaaaanattt gaatctantn ttatatgcga 240
atcaatccta ctacttctgg tcctg 265

<210> 2309
<211> 257
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700556222H1
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 tggnccttag catcacggta attaanaaca gtnacacgca gaaacttga cagcttgtaa 180
 agttaatgtt ggtgtcaggg gtttggtgtt tttgttgnc acctgtcaaa gttttctatg 240
 cttcatgccca tgtggta 257

<210> 2310
 <211> 258
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700556224H1
 <400> 2310

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 tggtagccca atggttagatg ctgtagttaa taactctccg ctggacaggg agatggttca 180
 ttggtttaag cacagacctg ccatattcca agccatgtgg gatcgtaan attttgcattg 240
 gtttgnggaa tttnggtc 258

<210> 2311
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700556225H1
 <400> 2311

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 agctgacatt ataccganat ccgcgtggat ctcttaacct gatattcgtc acgtcacaca 120
 atggatactc ttgttta 137

<210> 2312
 <211> 267
 <212> nucleic acid
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<400> 2312
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 ttctaagatn tctctatatc ccagcaagga gaagtattta tccaaacctt taaatgagct 180
 ggacctttct aactgcgacc agtgcactcc tagttaccgt ctcttaccga aaaattaccc 240
 aatacctgta gctagccaga aaacaga 267

<210> 2313
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 <213> Glycine max
 <223> Clone ID: 700556228H1

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 ggaggtcgca acaaacacgg ccgcggccat gtcaaattca tncgatgct ccaactgcgg 180
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 <213> Glycine max
 <223> Clone ID: 700556229H1

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 tcaccaagcg atgaganttc ccgttccctc atcccanag gccaacccan ancccancaa 180
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<210> 2315
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 <223> Clone ID: 700556230H1
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 cgacgtgact ccgagcaccg ccgagaactt ccgcgngctc tgcaccggcg agaagggcg 180
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 ttcatgtgcc agggcggcga cttcaccg 270

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 <213> Glycine max
 <223> Clone ID: 700556231H1
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<210> 2317
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700556232H1
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 <223> Clone ID: 700556233H1
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<210> 2319
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700556235H1
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 atgtttatca tagatctgtc atcccaatcc cttatccaaa ccctgatgga gattttactt 180
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 gaaaacctct tgcatttcct gatggcct 268

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 <213> Glycine max
 <223> Clone ID: 700556236H1
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 anggtgggtt gtntgagaga actggctctg gtgttcccaa attcaagtcc acaccaccac 180
 cttctctgcn tctctctcac cctcccattt ctctncttc ttactttgct attcctcctg 240

gtttgagccc tgctgagctt cttgantcg

269

<210> 2321

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<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556237H1

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cactcatnca gacaccaaca catcctcatg tgtctaattc taccttgctt gtatttgtag 120

cgctattact ccttgctgtg taaatggcac atgttgatgt tatnccgatta 170

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<211> 75

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<223> Clone ID: 700556238H1

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aattacntnc ggatt 75

<210> 2323

<211> 267

<212> nucleic acid

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<223> Clone ID: 700556239H1

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ggcgccggca aaggctgcac taacatgcgn cgcaccgtca anagngctcc tcagngcatt 180

tggtatggcc ctnaccgtcc caagtacttg ggtccattct cggngcagat nccatcatatc 240

ctgaccggag aattccctgg ngatacg 267

<210> 2324
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 <212> nucleic acid
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<223> Clone ID: 700556240H1

<400> 2324

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 <212> nucleic acid
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<223> Clone ID: 700556241H1

<400> 2325

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 cccaagttac gagtgaattc taaaaatct atgattggtc atctactagg ggcagctggc 240
 gctgtggaag ctgtggccac aatacag 267

<210> 2326
 <211> 267
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700556242H1

<400> 2326

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 gcaaaaggat gtgttttagca agcttctaata ggataaacia agtgactcta ttttcagggt 180
 gaatcattac gctgcttgct ctgaaatgac tctgaatgat cagaacttga ttgggtttgg 240
 agaacacaca gaccacaaaa tcatctc 267

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<210>      2327
<211>      84
<212>      nucleic acid
<213>      Glycine max

<223>      Clone ID: 700556243H1

<400>      2327

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agaggagaga gagggatttc gaac                                           84

<210>      2328
<211>      265
<212>      nucleic acid
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<223>      Clone ID: 700556244H1

<400>      2328

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gaatcattac gctgcttgtc ctgaaatgac tctgaatgat cagaacttga ttgggtttgg  240
agaacacaca gaccacaaaa tcatc                                           265

<210>      2329
<211>      271
<212>      nucleic acid
<213>      Glycine max

<223>      Clone ID: 700556245H1

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<223> Clone ID: 700556248H1

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 atggatactc ttgtntataa tgttacattn c 151

<210> 2331
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 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700556249H1

<400> 2331

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 gagtctgaaa tcaagctctt tatttggaga atcgctaaga gtggcctcca aatcaacaat 180
 aaagggttca aagacaaaga atacttcact cgtgaccaga tgtgaaattg gtgacagtct 240
 cgaagaattc ctcacaaaag caacaccag 269

<210> 2332
 <211> 266
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700556251H1

<400> 2332

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 catcatgatt gatctcggaa ccggttaaca caacaagatc aactgggctc tcaaggacaa 180
 gcaggagtgc atcgacattg ttgagaccgt ctatcgtgga gccaggaagg gacgggggtct 240
 cgtcatcgct cccaaagatt actcca 266

<210> 2333
 <211> 264
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700556252H1

<400> 2333

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 gccttggcat tccagttgac agagaaatta tctatccttg cagagagtaa tgaaagagca 180
 acagaggcaa ggataggtgg tggtaggttg gatctgcctc taaggcgag agatggccag 240
 gactatgccg ctgccgctgc tgggt 264

<210> 2334
 <211> 235
 <212> nucleic acid
 <213> Glycine max
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<400> 2334

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 aagcgctagg gatcaagaaa gctctggttt tttagccggg aaaagccccc aaaggagtga 180
 aaaccaattg gatcatgcac gaatatgcc tcgccaatgt tgaccgatct gcctc 235

<210> 2335
 <211> 84
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700556255H1

<400> 2335

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 tcttcttact gctgcttcga atcg 84

<210> 2336
 <211> 267
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700556256H1

<400> 2336

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 tgtagctgga gccactggta gcactggcaa aagaatcggt gagcagttac tggcaaaggg 240
 ttttgctgtt aaggctgggg ttagaga 267

<210> 2337
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 <212> nucleic acid
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<223> Clone ID: 700556258H1

<400> 2337

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 tatcctcaag gtcagctga agaaatgggc ttcaactacc ttcaagaggt cactgggtgca 180
 ggtgctagga aaaatgcagg gaaatttggt gttctacacc tccgatttga taaggatatg 240
 gcagcccatt cggcctgcga ttttg 265

<210> 2338
 <211> 265
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700556259H1

<400> 2338

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 ggagataatc aacaacgtaa tgtgtctttt gacagaccct gatggaactc ctttgggtgc 180

gggcaaaagg gtttcctagt ctgaaggtgt taggccttga tgatttagat ggactgaaat 60
 caatgactgt ggaggaggga gcaatgcctg gtcttaaaaa gctcatcatc cagcgctgtg 120
 attcattgaa gcaggtacca ttaggcattg aacacctaac aaaactanaa tcaatagagt 180
 tttttgatat gcctgaagaa ttgattacag cactgcgtcc aaatggaggt gaggattatt 240
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<210> 2342
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 <223> Clone ID: 700556266H1
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<210> 2343
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 <213> Glycine max
 <223> Clone ID: 700556267H1
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 aacctcgccg cgatcannnn nnnnnnnnnn nnnnnnnnnn nngcacaat tccaacagca 180
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<210> 2344
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 <212> nucleic acid
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<400> 2344

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cacttgga caacacatggg tctcttcctc gaagaggctg agaagggtgaa ggctgagatg 240
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<210> 2345

<211> 261

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556271H1

<400> 2345

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gctttacaaa tcaactgagga ctcggaatt ttggatgatg ttggaaatca ccatgtctat 240
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<210> 2346

<211> 265

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556272H1

<400> 2346

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cgccggccac tcagtttctc tttcgttnt cttntctnt tctntcttcc tttcgttcac 180
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ccgactgcta gnnctcgtta anacc 265

<210> 2347
 <211> 265
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700556273H1

<400> 2347

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 caaagagcat gaaggcaaaa atggggccaat cccttggaat ttcacggcag gcagcatggg 240
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<210> 2348
 <211> 258
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700556274H1

<400> 2348

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 agaatgcaag cactattggg tattttcaact cagctcaagc aatagcagat tatgcatcag 180
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 gatcatatgg aggaatgc 258

<210> 2349
 <211> 262
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700556275H1

<400> 2349

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aaaatcctag acnncaatca acgcctcgaa attgcaattg atgttgctca tggcttgacc 240
tatctgcatc tgtatgcaga aa 262

<210> 2350
<211> 266
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556276H1

<400> 2350

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acagctgcta gcagcctcat ggagaccatg gattcacttt aatgagttat ttggcttgca 240
aaatatataa tcatttaatg tgtata 266

<210> 2351
<211> 264
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556277H1

<400> 2351

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ctcctccgga tatatatatg aacagaagaa tactccttcg aatgagaaaa gtcttgaaag 180
atatgataga catgatgttg gccataatga gtctgaggga gaacaatcaa gtcattgtga 240
ggatcttata acaaagtttg aacc 264

<210> 2352
<211> 267
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556279H1

<400> 2352

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 gaaggggtcgg ggaaatgttt taatttgtat ccgagcatcc aacgctgaca agaggtgggt 180
 taaccgggtgc atgaccatga tgtagtctta atgttgaagt ctttaattttt atttattttt 240
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<210> 2353
 <211> 273
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700556280H1
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 gatgatgtta gccgccgacg tccacctcgg caccaaaaac tgcgacttcc aaatggaacg 180
 ttacatcttc aagcgccgca acgacgggat ttacattatt aaccttgga agacatggga 240
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<210> 2354
 <211> 267
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700556281H1
 <400> 2354

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 gagaattcag ttctggagtt tgtgaggggtg attagtgcaa agcagcaagt ggttgctgga 180
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<210> 2355
 <211> 266

<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556282H1

<400> 2355

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ggggccactc aggcagatct ttgtggagtt ccttgagagg tcctgcactg ctgaattctc 180
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<210> 2356
<211> 263
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556283H1

<400> 2356

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acaactgatg caactagatg gtggttattg ttgtgcatcc tgcggtaaag ttactgggat 180
acttggatgt tggaagaagc agctaaatat agcaaaagat gcccggcgtg tagatgtact 240
atgctacaga atatatttga gct 263

<210> 2357
<211> 262
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556284H1

<400> 2357

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acttggcacc cctccaaagc tagctgaatt gccgccaggt gaaaatgttt aagcagtctg 180
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262

<210> 2358
<211> 262
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556285H1

<400> 2358

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ctgaaaatgt tgctgttcaa gtccttgact ctgtgantat caccttgggt gctgaagatg 180
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<223> Clone ID: 700556286H1

<400> 2359

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accccatcaa cctcagtggg gccacaaggc cagctccatc tgcctctagc cctgcctcct 180
tcaagactgt ggctcttttc tccaaaaaga aggctgcacc tccaaaaaaa gctgcagctg 240
ctgctcctgc caatgatgag cttg 264

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<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556287H1

<400> 2360

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<223> Clone ID: 700556292H1

<400> 2363

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cccaagtgtg acatatgcc a ngaaatgggtt gggtattncc ttctgttta 169

<210> 2364

<211> 268

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556293H1

<400> 2364

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aacagatgaa gaactcgtca tccactacct ttgtcgcaaa tgcgcttcgc aacatatcgc 180
ggttcccata atcgccgaaa ttgatctgta caagtacgac ccttgggacc ttccaggaat 240
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<210> 2365

<211> 170

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556294H1

<400> 2365

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cgccggccac tcagtttctc ttctgttttt ctgtgtctta tctntctttc 170

<210> 2366

<211> 269

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556295H1

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 tgccctacaa aaggacacct cctagctggc tcaagatctc ttcgcaagat gtcgaagaaa 180
 atatctgcaa gtttgcaag aaaggtttga ccccgctctca gattgggtgtc attctcagag 240
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 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700556296H1

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 cagctgttcc ataaatgatg cacatcattt agccattctt tatgggattg gattctcata 180
 tgcattgtat gaggtttccc tcgttcagag catgaaatga atctactgaa aaaatgtcat 240
 gtgatttctg aagggttcac tgtagttga gt 272

<210> 2368
 <211> 91
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700556303H1

<400> 2368
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<210> 2369
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 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700556304H1

<400> 2369

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ctcgagacag cgggtggcgcg gacgggcgga accgggttacc agtctccgtc cgtcgtatgtt 180
cccacgcata aggtcatagt ccacgacaga caacgaggaa tcgttcacga attcgtcgtg 240
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<210> 2370

<211> 187

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556305H1

<400> 2370

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aatcctcatt acagtctagc aaggccaagt ccttggcagc aagccttcag aagggattac 180
agattat 187

<210> 2371

<211> 288

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556306H1

<400> 2371

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ggaagaaacc atctctttgt tccagggccg gttaacattc cggaccagat catccgggcc 180
atgaacagaa acaatgagga ctaccgttct ccagcaattc cagctatgac aaaaactttg 240
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<210> 2372

<211> 286

<212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700556307H1
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 tagacatagc tangctcttn gccantcatg gtgttgatgt caccataatc accaccacag 180
 ccaactgccgc nattttccaa gctctatcga tcgcgaccgt gaccgcggcc agntattaga 240
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<210> 2373
 <211> 284
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700556308H1
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 acctaccctt cagtcctaac tttagaacia tattgcaccc ttgaatctgc ttccacaggc 180
 aacagtttctn ctaacaaaaa ttctccacct gctctcagtt tctcatctaa caatagtcca 240
 ttgtcaaagc tagagtcaaa ctcatatggt aaggccacag catt 284

<210> 2374
 <211> 281
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700556310H1
 <400> 2374
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 agagctccaa accttcagat ccacctcatt cgtctccaga tcttccttcc ttgataacgt 180
 tttcgggttc gagaaggcac ttgtttgttt gtcgtacgaa atggagacta aaccgagttc 240

ggtgatggtt acgctcagtt acggccgttg acgtgcgccg c 281

<210> 2375
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 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700556311H1

<400> 2375

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 tcaataatcc aataattatt tattcttaga aagctaataa ttgtaactgg tgggttgag 180
 ctttcttaag gcatagatgg ttgcatgaa ttgcatgac gatctgtata tctatttact 240
 gaataatgct gcttgaacta atcatcggtt gtttgatagc 280

<210> 2376
 <211> 275
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700556312H1

<400> 2376

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 actggtcacc tgatttacia gcttggaggc attgacaagc gtgttattga gaggtttgag 180
 aaggaagctg ctgagatgaa caagaggtct ttcaagtatg cctgggtgct ggacaaactt 240
 aaggctgagc gtgaaagagg atcaccatga tatgc 275

<210> 2377
 <211> 282
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700556313H1

<400> 2377

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tagccactgc taaaacttgt ccttttcctt tcccccgca aaaaataaaa taaaataaaa 120
 tccaacacat ttaacagatt tcacgccacc aacggtgtct tcgtaacgga tatagcataa 180
 ccttttgatc attcgggatg aaaatccaat ctccaacctc ggatccatct tttacattct 240
 tcagatcata ggatctaata ttgtagcagt tttgaaagaa ga 282

<210> 2378
 <211> 179
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700556314H1
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 ctgtcgttgc gccaatcgcg gcgttgttgt tgggtggtgct actcgcggcg agtgtggtgg 120
 tggaggctca ggagaactcg gacgtgaaga cgctggtgaa gcacatgcac gggaagaag 179

<210> 2379
 <211> 284
 <212> nucleic acid
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 <223> Clone ID: 700556315H1
 <400> 2379

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 cggcgccaag ttctgggagg tggtttgcgc ggagcacggg atcgacccca ctggaaggta 180
 cgggtggggac tcagagcttc agctcgagag gatcaatgtc tactacaacg aagccagctg 240
 cggccggttc gtgccgcgcg cggttcnatg gacctegaac cggg 284

<210> 2380
 <211> 278
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700556316H1
 <400> 2380

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 ccaaggcaag ggtgccaatg ccaatgctct tagggatggt gtttccatgg gaactgggaa 180
 gtacaccatg ggcaatgatt tgtggtatgg accagacaga gtgaaatact gggacccttt 240
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<210> 2381
 <211> 276
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700556319H1

<400> 2381

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 tctccttatt ttgtttcttc tgccactcat tgcttgctga gagagccttt tgttctgagt 180
 ttttggtttc ttggtgagtg cttctgacaa tatattggaa cttgggtttg gggatggtgc 240
 tttntagggt acccaattga gnttttnttc tctaaa 276

<210> 2382
 <211> 290
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700556320H1

<400> 2382

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 aaaattaatt ctcaaggatc cacaagatcc ttccactcca aatgcagttt catacaaaac 180
 agcagcgaga gagaaactga taaggcaggg atacaacatt gttgggatca ttggagacca 240
 atggagcgat ctctcggag gccacagagg cgagcaggac ctttaagctt 290

<210> 2383
 <211> 51

<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556321H1

<400> 2383

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<210> 2384
<211> 97
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556322H1

<400> 2384

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nctaaaccac ccacaacaca acaaccgnat ncntttt 97

<210> 2385
<211> 282
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556323H1

<400> 2385

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ggaacaccga gatcgccggg caagcaggct ctctcgccgc tgggtgggctt gtggtgatcc 120

tcagcctttg cctcacaatc tatgggattt catcttttaa cgaaggagac ccatccactg 180

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ggtggggcaa gttcaccgga ggcttctctt cggagcattt cg 282

<210> 2386
<211> 284
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556324H1

<400> 2386

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 gtgttgaaat catagccaac gatcagggta atagaactac cccatcctac gtggctttca 240
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700556325H1
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 acgcctacgt cgacganctc ctcaacatcc tcgacgncct ccgcgtcccc cgctgngtct 180
 acgtcggcna ctccatctcc gccatgatcg gcatgctggc ctccatccgc cgcangacct 240
 cttctccaaa ntcacctat aggcgctcnc cta 273

<210> 2388
 <211> 283
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700556326H1
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 aaccaatcaa cgccctccac tcttctctca attcctccct catctctcaa gaccaagncc 180
 ctcatggcgc gcgctgccat ttccantcaa gttgtgagga accgaatgaa gagtgtgagg 240
 aatatccaga agatcaccaa ggccatgaga tggttgccgc gtc 283

<210> 2389
 <211> 279
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700556328H1

<400> 2389

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caacctcagc ctcacactca cacatacaca catctgaacg cgtatcgtcc ctcccatggc 180
ttcaaagcgc atcctcaagg agctcaagga cttgcagaaa gaccaccaa cttcttgtag 240
cgctgggtcca gtagctgagg actgttccat tggcaagca 279

<210> 2390

<211> 279

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556329H1

<400> 2390

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attgaaattg aataagtaaa caatttaatt ggattggctg aatgggtatca aaaaaatgga 120
gtactaactc ccatttctta tttattattg aattaaccga tcaacttgct ttgttatcga 180
acatttcttt ttgatttcaa aaattttccg gaaaaaattt gaatctattt ttatatgcga 240
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<210> 2391

<211> 279

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556330H1

<400> 2391

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ccttaaagag acttgagggt acagaattct ctgggcttag atccacttca tgtgtcacat 180
atgctaacag tgctagagaa tcttcctttt ttgatcttgt agcttcccaa ctactccca 240
agaccaatgg atcaactcct gtgaggagag acagtggcc 279

<210> 2392
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 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700556331H1

 <400> 2392

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 tgcctatctg catggaagaa atacagtaca cagggatatt aaaggggcga acatactagt 180
 tgatcctaata ggtgaaatca aactggcaga ctttggaatg gctaaacata taaattctct 240
 gcctcaatgc ttcacaaaag gaatccatac tggatggca 279

<210> 2393
 <211> 232
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700556332H1

 <400> 2393

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 tataattaat taatgaacat ggtagtagat cttttgatac atggtgggggt tgggtgggggt 180
 ttaatccaaa tgtaaaaatg ggtaaattaa attgaagttc tctagttatg cc 232

<210> 2394
 <211> 283
 <212> nucleic acid
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 <223> Clone ID: 700556335H1

 <400> 2394

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 ctctctgctt gcaaagaaac cctttgtggg tggcactgct ctttccctca acaacctcaa 180

tttttgctgt actaggaggt cttacacctg tagagccatc tacaatcccc aggttgctgt 240
caaagaagaa ggccaacccg aaaccccgat tatagagttt tct 283

<210> 2395
<211> 93
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556336H1

<400> 2395

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<210> 2396
<211> 286
<212> nucleic acid
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<223> Clone ID: 700556339H1

<400> 2396

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cagtgctaag gacaccgcca ccgatttctt gggcaaaggc ttggacgcat taggtcatgc 180
agttgatgct ctactgcct tcgctggcca tagcatctcc ttgcagctta tcagtgtac 240
tcagactgat ggtagtggaa aaggaaaagt ggaaacgaag cctatt 286

<210> 2397
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<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556340H1

<400> 2397

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tatcgttggt gttcacttta atttgttggt tagaatcatn nagtttcaca atcgattgaa 180

agtttttgtt gtcgattcgt ggtaattaat gaagtttttg tatgttgatt gcctagct 238

<210> 2398
<211> 278
<212> nucleic acid
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<223> Clone ID: 700556341H1

<400> 2398

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acaactgctg caggacttct ttaatggaaa agagctttgc aagagcattc atcccgatga 180
ggctgttgca tatggtgcgg ctgttcaggc tggcaatctt aagtggtgag ggcaatgaga 240
agttcaggat ctctcctccg ggagtcaccc ctctcttc 278

<210> 2399
<211> 281
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556342H1

<400> 2399

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cntcccctcc tttcttgctc caaagcgaca tgttttcgga cgaacaagag ttgacatcgc 180
tgctggggaa agaacaccac aacctctaa gcacctgtct ccaaaccaac cctgccttgg 240
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<210> 2400
<211> 277
<212> nucleic acid
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<223> Clone ID: 700556343H1

<400> 2400

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<210> 2401
 <211> 92
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700556344H1
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<210> 2402
 <211> 280
 <212> nucleic acid
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 <223> Clone ID: 700556345H1
 <400> 2402

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 tctagggatt cttccgacga gtccgctgga aagttcgaac acgatttcgt ggctaagctc 180
 aaaatcaacg aaaacgaaaa cgaagagaag cataacgaag atgaggtaga agaagaggaa 240
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<210> 2403
 <211> 267
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700556346H1
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caaggcctca ttgttgggag acaccattgc ttatgatcaa tgagctncca ggctaaagtc 60
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<210> 2407
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<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556351H1

<400> 2407

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cgaggcttcc tacgctccag tcccacctcc ccagcccaaa cctcttgtcg attgggtccac 180
cggcctctgt gactgcttct ccgaatgtgg aaactgttgc atgacgtgtt ggtgtccatg 240
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<210> 2408
<211> 285
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556352H1

<400> 2408

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caggttcatg gtccaacaac tataaagtgc cctgcaacct ctcaaagcag cacattgggtt 180
ttgtatcgaa attcgaccan atttgnnctt ctctgtgat ggaggacgag catnnaangt 240
tggattctnt gcctganatt gaattatcag tcagaggaat attcc 285

<210> 2409
<211> 285
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556353H1

<400> 2409

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 ggacttgtgg ataagatcaa ggacaagatc catggtgatg gccatgacaa ggtgnnnnnn 180
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nntggacatg accatcatgg tcatagcagc 240
 agcagtgcaca gtgattagat cttatatgtt agcagtgtac ggtac 285

<210> 2410
 <211> 286
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700556354H1

<400> 2410

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 cgagaagaag gttctcgaaa cagttgatga atcaatcgta tgcccccnnn cacagaagaa 180
 cgaggaaccc ttaatcgta aattcagaga gggacaaacc aaccttctg aaaaatactc 240
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<210> 2411
 <211> 238
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700556355H1

<400> 2411

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 cacatagagc ccaaattccag gacttgccat gccctcgctg ccgctttggc tgcagaggtc 180
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<210> 2412
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 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700556356H1

<400> 2412

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 tctccgaatg aaaactggct atggtgagcg ttcttcggag gtaaaatgcg caagtttttag 180
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<210> 2413

<211> 276

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556357H1

<400> 2413

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 tcttcggcct agtgtttctg atggagttga tgcaattcaa cctcaagagt cttatctaca 180
 actcaataaa gaccaaaggg ttgttggtga gtctcttctg atgatgatga gcattctgta 240
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<210> 2414

<211> 178

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556359H1

<400> 2414

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 caccxaaatc aacatgcaac ttctctatc acataatagt tccttttccc cttcatct 178

<210> 2415

<211> 267

<212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700556360H1
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 tgagcttgtc tttgccaaga tgggaatcaa ccccatcatg atgagtgctg gagagttgga 120
 aagtggaaat gcaggagagc cagcaaaaact gatcaggcag agataccgtg aagccgcaga 180
 cttgatcaag aagggaaga tgtgtgctct cttcatcaac gatcttgatg caggagctgg 240
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<210> 2416
 <211> 279
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700556361H1
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 atacacctgc tgggcttaga ttattgaggg agaaagagct gagaaatctc agaggtgatg 180
 gcaaaggagt tagaaactta tctgacagaa tatatgacta tgatatatac aatgatttgg 240
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<210> 2417
 <211> 278
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700556362H1
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 accagcaaaa agggtaggt ttccaaaggg aaagaaagtg aagccaggag atgaagtgg 180
 ggtggacaaa gcaaatgttg aggagggtga agaagttgac ttggtgaatg ctaaaactgc 240

taccatgctg ccaaagagcg ggnaaatcag aaggtttc

278

<210> 2418

<211> 283

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556364H1

<400> 2418

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cntctgcgcc ctntctttca atgccggttc cctctactac aagtcgtctt tgctgatga 120

agctgtttac gacaaggagc gacccggagt tacatggcgc aagcagtnga atgtccact 180

tgaggctgtg gatcctgaga ttggcngata ttattgagct tgagaaagct aggcaatgga 240

aggggctaga attgataccg tcaganaatt cactctgtgt cgt 283

<210> 2419

<211> 91

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556365H1

<400> 2419

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acgctgaggn tctcaganag gcttttgang g 91

<210> 2420

<211> 284

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556367H1

<400> 2420

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cggagctgag caagagcaac aaggaccgaa tcaacacctc ttccgcattc aattccttca 120

agaacaacta cctcatcgtc tattccctca tgatggctgg agattggcta caaggtccat 180

atgtctacta cctttacagt acatatggat atgggaaggg agacatagga caactcttca 240

ttgctgggttt tgggtctcca gctcttggac aatgtcggat ctct 284

<210> 2421
<211> 285
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556368H1

<400> 2421

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ctctgncgtt cagaagtatg agaagtatca tgtttgctat ggaggtcaag aggaagagag 180
ganagctaata tataccgata tggttaataa atactacgat cttgtttacca gcttttatga 240
gtttggctgg ggggaatctt ccatttgcac cagatggaaa gggga 285

<210> 2422
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<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556369H1

<400> 2422

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taaagctgac agggatgatg aaggtcagta cctgggcttc aagacactct gggagattaa 120
acttctcct aaagccctct cctttgggtg gaggttacta tgggatagac ttcctacgaa 180
ggacaatttg attaagaggc agattcaggt ggataataat ttatgcccat ctgtcatagt 240
caacctgaaa ctgcttcca cttatntcac ttgtggcaaa a 281

<210> 2423
<211> 92
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556370H1

<400> 2423

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actctactac caattcatgt nctcttattc tt

92

<210> 2424
 <211> 285
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700556371H1
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 cttcgaaacc ctaaccctat ccacggcatt cctccgctcg ccgtcgacgc cgtcaccgtc 120
 gcgccaactg ccgcaaaccg aataaaccga atcgatctga gnnnnnnnnn nnnnnnnnnn 180
 ncgatctcgg aggtgggagc gaaacgaaac gatgccgtct cacgcggatc tggaacgaca 240
 gatcgagcag ctgatggagt gcaagcctcg tcggatcgga ggtga 285

<210> 2425
 <211> 278
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700556373H1
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 acacgtgtgg acgggtactg gaacgcgccg ttgggtcccg aaaacttcgt tccgggaaaa 120
 tacctggtcc caccgggctc ctcgtagcga ggactcaacg accgtttagg aatcggcgac 180
 ctcagaacct cgacggtggc atgtcgcgtc tctctttagt tccaaacctc gattccgctg 240
 gcttcaacaa cttcaatcg gagcagcgtt caggccca 278

<210> 2426
 <211> 278
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700556374H1
 <400> 2426

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attcaaagcc tctgaactac attctccgaa gtcataactca agaagaggaa aagcaccgaa 120
 gcatgggCGT taaggaaaaa agaacagttc cagcaaaaaga aattccaatc catcagaaaag 180
 cccgaggatt tcatccacga gtatcgcaac aaggaagtgg accttataag aatgaagcgg 240
 aggtgaagag gaaagtgcct gaataatcca acactatg 278

<210> 2427
 <211> 274
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700556375H1
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 cgcagagcca agacgacggc aaggactacc aggagccggc gccggcgcca ctggttgacc 180
 cgacggagtt tacgtcatgg tcctttttaca gancagggat agcagagttt gtggccattt 240
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<210> 2428
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700556376H1
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 cttcttcgaa gagcgtttcg atgacgggtg ggaaaatcga tgggttaaata cagattggaa 180
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<210> 2429
 <211> 274
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700556377H1

<400> 2429

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tttgatatcg aaattgctgg gagatattca acgtggatac ttacttgtag tgcttagttt 180
gagtctctat taatgaccct atcttgcag ggcctttggg gttaaagatt acgattcttc 240
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<210> 2430

<211> 275

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556378H1

<400> 2430

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tatattgtgt gtcagaagaa aactgatcag cagggagaga tccaatatag gttgactggt 180
tttactgctg ttatcgatt ttatcactat cctgatgatt cccgattgag actaagccag 240
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<210> 2431

<211> 279

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556379H1

<400> 2431

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aaatccatgg ctggcttccc cagcaggaag accaacaatg acattacctc cattgctagc 180
aacggtggaa gagtacaatg catgcaggtg tggccaccaa ttggcaagaa gaagttcgag 240
actctttcct acttgccaga cctgatgatg cccattggc 279

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 <211> 187
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 <223> Clone ID: 700556381H1
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<210> 2433
 <211> 284
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 <223> Clone ID: 700556382H1
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 ctgtgtgatt tgctagacat ttctcctagt ctatctgagg cagcacgtgc catgtagatg 240
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<210> 2434
 <211> 282
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700556383H1
 <400> 2434
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 gactacgagg atgcacgcgg gaacgacgct gaagtcccag ataccgctca tcagattagc 180

accgattcat gggtttcaagt ggctttttatc ctactaccg gaatcaacag tgcctttgtt 240
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<210> 2435
<211> 283
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556385H1

<400> 2435

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ggatccttga cttcttctct cactttccag aaagccttca catgttcacc tttttatttg 240
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<210> 2436
<211> 278
<212> nucleic acid
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<223> Clone ID: 700556386H1

<400> 2436

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gttccaaggt ctctctaaaa ttgagtgatt gagtcatt 278

<210> 2437
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<212> nucleic acid
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<223> Clone ID: 700556387H1

<400> 2437

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tgcccttaag ggagatcaga tgctgaagaa cattttgtgg aggtgaagaa caaatgtgag 240
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<210> 2438
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<212> nucleic acid
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<223> Clone ID: 700556388H1

<400> 2438

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taagaagaaa ataagttcat ataccatgta tattttttcac attttgggcc caatctttga 180
gatttatact attaagttaa tgcccattaa gtttacgact ttgcttaaaa ctcgttgaag 240
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<210> 2439
<211> 274
<212> nucleic acid
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<223> Clone ID: 700556389H1

<400> 2439

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<210> 2440
<211> 273

<212> nucleic acid
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 <223> Clone ID: 700556390H1
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<210> 2441
 <211> 274
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700556391H1
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 atttgataag caaacccctg gagaagaaac taatttgcct attgggagga gaaatttaac 180
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<210> 2442
 <211> 274
 <212> nucleic acid
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 <223> Clone ID: 700556393H1
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274

<210> 2443

<211> 246

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556394H1

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tgggacctct acaagctcgt ccaaggagag ttcccggagc agcatgactt gcctctctac 180

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<210> 2444

<211> 279

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556395H1

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ttcgtgtggtt gaattgtggt gtgaatttgg tgtgatgaag tgggaaatgg agatcctccc 180

tctgcatca ccttacacgt acaattccaa ttggctctag atgacaacag ggaccaacaa 240

caacaccaaaa tggaccctg caggaacaag ctgtttgag 279

<210> 2445

<211> 278

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556396H1

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tctctcagac ttgtagtcta ttgagccaat acatcaagga aaaggggtacc ttcggagacc 180
ttaccctcgg gatgacttgc actgccgaaa caaacgggtc ccttgagaca tcgtgtcatc 240
tgcaacaacc aggagttggt tccacgatca tcacgcaa 278

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<212> nucleic acid
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<223> Clone ID: 700556401H1
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cgatctgtac gacggaggac gggtagttgc gtaactgccc gttaaccctt cgcgcacagg 180
tgggcgtggg gcttgccttc tgaagggtgg agcccttcag attgtcttcc tcgctgggtgg 240
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<211> 305
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700556402H1
<400> 2447

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aatccatggg ctggcttccc caccaggaag accaacaatg acattacctc cattgctagc 180
aacggtggaa gagtacaatg catgcagggt tggccaccat tggcaagaag aagttcgaga 240
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aaagg 305

<210> 2448
<211> 302

<212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700556403H1

 <400> 2448

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 ccaagatgtt gggagtgttt gtgggacttt tgttggtggg gttggctgcc tctgccaagt 180
 ttgatgaact cttccagccc agttgggcta tggaccattt catccatgaa ggagaactcc 240
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 gg 302

<210> 2449
 <211> 303
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700556404H1

 <400> 2449

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 actgcatcaa tggcatctac tntctctcgc ttgcccgctg ttgtgttcct cctcttcttc 120
 tatattttct acttccgtca aattctcctt aaaccggaat aaaatttctc ttccgttcgc 180
 cggaacaaaa aaacctcttt cggctccaat tcgaaggcgg ttcaatgtca ttgctatggc 240
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 agc 303

<210> 2450
 <211> 297
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700556405H1

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cttgcaattg	aagttgaagt	cttgcccttc	tctcttcaac	tccaaacaca	agacatcatc	60
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tgggtctgga	cctgggggtt	cagctcccag	ttcatccttc	tttgggagca	gcttgaagaa	180
ggttattggc	tcaaggggtc	ccaacacaaa	gatttcctct	ggaagcttca	agattgttgc	240
tgtagaagag	aaganagaga	ttgaagagac	ccagcagacc	gacaaggaca	gatggaaggg	300

tgcgacgtcg	ttttgtgctt	tgtagtgtga	aanactgttc	cgagaacaac	aagcgctta	60
tccattttctc	cacttgcgaa	gtgtacggga	aaacgattgg	agcctttctc	cctaaagata	120
gtcctcttcg	caaggnaacc	tttcttttga	attttattat	cgaaccggtt	tcttttgaag	180
agcgtttttag	atctgtg					197

887

gcacaacgaa ccactctgaa gccgctcacg ttatccacaa cactgctcaa ccttccttaa 60
accctaacca attccaacca tggcttcttc ttccaccttc actgcaatgt cccgcctgca 120
agctctcttc ctccgccgcc atctctcctt cccctccgc cgcgctcca acgccgtcgt 180
tctgtcgagg cgcagcgcgc cgccagggtc tccgccatgg gccaaaggagt tgcattcaac 240
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g 301

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<211> 301
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700556409H1
<400> 2454

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aaaccatggc tgaagaagat tcagcaagca agaccctca tttccgtggt taacaaggct 180
gcctctctat cttccccctg gacagcacc agcgtcggcg ttcggtttcg gctggacaat 240
ttggggccgc aaccgggttc gaggaagagg gctaagagaa agggtagagg aatatccgca 300
g 301

<210> 2455
<211> 295
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700556410H1
<400> 2455

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agcgtgcgag atcaacaatc tcgctcgctt tgctgtagag gaacaaaaca aaagagagaa 120
ttcagttctg gagtttgtga gggtgattag tgcaaagcag caagtggttg ctggagtga 180
ttactacata acattggaag caaaagatgg tgagattaaa aatgagtata aagcgagggt 240
tgggagaggg aatcccaaga gttgctagan tcagccaacn taggtgcagg aggca 295

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<210>      2456
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<212>      nucleic acid
<213>      Glycine max

<223>      Clone ID: 700556411H1

<400>      2456

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gaaaaaaaaat tagaaaaaaaa ttctcactcc ttctaggggtt ttgttttatt ttgcattgna  180
ttgaaatccc cactactcca aaattcaaaa tcccaaacct tctctctaga aaaagaaaca  240
gtttttttt                                     248

<210>      2457
<211>      295
<212>      nucleic acid
<213>      Glycine max

<223>      Clone ID: 700556412H1

<400>      2457

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tgtgatggaa tacgcttctg gaggagagtt atttgagcgg atatgcaatg caggacgggtt  120
tagtgaggat gaggcacgct tcttcttcca acaacttata tcaggggtta gctactgtca  180
tgcaatgcaa gtatgccatc gtgacttgaa gttggagaac acattgctgg atggtagtcc  240
agctcctcgt ttgaagattt gtgatttttg gtattcgaag tcctctgtgc tacat       295

<210>      2458
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<212>      nucleic acid
<213>      Glycine max

<223>      Clone ID: 700556413H1

<400>      2458

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aattagcaat ggggcacaca tcccttttca ctccctcttc ctctcttagg ttcaactctt  120

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cttgttttct ccacccctc ttcttcttca cgctccaaca gcgtttcttt cccgcctc 180
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 cagtgtaggt ga 252

<210> 2459
 <211> 294
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700556414H1
 <400> 2459

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 tacacttcac tacagacaaa taaaattcac actcttttgt cagacacgta taagtgtatg 180
 acattctcta ctacaactac ttggtgtttc ccataccgaa cactcttctt caatcaagcg 240
 aggtggtctc gattgcaagt gatccacgat acactctacg ttcacaaaac ttca 294

<210> 2460
 <211> 294
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700556416H1
 <400> 2460

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 gcagtgcgga ttaaatacaag gagttacagg tcttccgttg angggttggc ctctagcatc 180
 tggaatgntc nactaagacc taatttgggt gtccaaattc cgaagcccat ttgacagccc 240
 agaatcattt gttttgggcn tcacaacagc ancaggtctt ggcacaggct cagg 294

<210> 2461
 <211> 305
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700556418H1

<400> 2461

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 agcgtcgaga tcaacaatnc tcgctgcgt ttgctgtaga ggaacacaac aaaagagnga 120
 attcagttct ggagtttgtg aggggtgatta gtgcaaagca gcaagtgggt gctggagtga 180
 attactacat aacattggaa gcaaaagatg gtgagattaa aaatgagtat agagcgaagg 240
 tttggganag ggaatcccaa ganttctag aattcaagcc aacattaggt gcnggaggca 300
 tcac 305

<210> 2462

<211> 116

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556419H1

<400> 2462

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 cgtcggctat gtcggactcc accgccaan cctcgancca gcaccgncag nnang 116

<210> 2463

<211> 297

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556420H1

<400> 2463

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 ggcaatgaaa gccttagtgt gtgtgtcgaa tctctacggc ttcgcaaagc aaaactcggg 180
 acttttgaga tctgctgttg gaaccgtgga agacactgta accaccgttc tgggtcccgt 240
 ctaccacaat tcaacgctgt tcccaaccac atcctccttt tgctgacaac aaggtgg 297

<210> 2464

<211> 297

<212> nucleic acid

<213> Glycine max


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<210>      2467
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<213>      Glycine max

<223>      Clone ID: 700556427H1

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<210>      2468
<211>      283
<212>      nucleic acid
<213>      Glycine max

<223>      Clone ID: 700556428H1

<400>      2468

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gctgagcaat attgtgctga gataggaaga gctgatgcat atatgcagtt gcttgaaatg  120
tatttggatc cacaagatga taaggatccc atgtttactg ctgctgttcg ccttctgcat  180
aatcatggag aatcattaga tccattgcaa gttttagaga aactgtctcc agatatgcca  240
ttcaacttgg cttctgacac tttactaaga atgttcaggg cca                       283

<210>      2469
<211>      294
<212>      nucleic acid
<213>      Glycine max

<223>      Clone ID: 700556429H1

<400>      2469

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gacccaaatc catctaata gaattgtcca ctgaaaaata aaaatccttg cctttcccaa  120
ttagcatttt attcacctaa cccatttcct attttatttc cccacttaaa atgatatttt  180
tttcttcttc cactaacctg ttgaactgaa gcaagccacg cagggtttac ctggcgtggg  240
ttggattgaa agttgaaaca taccctactt gagatagttt gtggaattta atat         294

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<210>      2470
<211>      289
<212>      nucleic acid
<213>      Glycine max

<223>      Clone ID: 700556430H1

<400>      2470

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taccacattt ccacctctca acttgactct ctcttgaaag acttgaactt tcatgttggt  120
ccagtctgag aattttccag aaatattagg aganatgaaa aacttattga agcttgaatt  180
gtctggcctt cttggtgtaa aaggattgcc agtttcattc aaaatcttgt tggactccaa  240
agtttagacc tggatgatgt gaaaattttt gttaccagta acattattg                289

<210>      2471
<211>      290
<212>      nucleic acid
<213>      Glycine max

<223>      Clone ID: 700556431H1

<400>      2471

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ttgcgcgaag accatcaggt gtgttcagtt gctctgtttt atgcaactct gtttttttgg  180
ttccgcctag gtaggtgttc atgtcttgtg ttttggactt tcggtactaa gagtaggcac  240
taagcattac tgcagtatth taagttgttt tgtntccttt tttgtcatta                290

<210>      2472
<211>      296
<212>      nucleic acid
<213>      Glycine max

<223>      Clone ID: 700556432H1

<400>      2472

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nnnnngnnnc caccatcacc aataataatg gcatcatcct catcaaccgt tgctttgaga  120

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accatctcct ctttctctnt gaaantgcc aacacaag atcattactc aacactagta 180
 cttcatccan catcaaccct cttacncttt acatcagcaa actcatttnc tctccaaaac 240
 cctcaaactc aacantcttc cccacactct cacttttact acnctcaaca agtctt 296

<210> 2473
 <211> 296
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700556434H1
 <400> 2473

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 ggctttatga gcccagagtat gggaaaagct gttgatgaca tagagatggg taggaaaact 120
 gtctgggccc acatgggtag tactgctctt gatcctctga aggtcaatta aatgagcgcg 180
 tggcagtaaa ggatggggaa ttccgtgagt tgtctccaga aattaggaca acagtggacg 240
 aaacgagtga ccgtgccgga atacatccca ggagatccag ctggggaaga aaaatg 296

<210> 2474
 <211> 284
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700556435H1
 <400> 2474

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 tctgttgcaa aattaagaag gaagaaacat actccattaa tgggtggtgt tagatggggt 180
 cgtccagagt catcttcac ccatgaaactc ttcttgctca ggtgcctctg gtactgggtg 240
 cagggctggt tctgtattgg gtcctaacc ctctagttgg tttt 284

<210> 2475
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700556436H1

<400> 2475
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gctgctactt catgttggca tgctccatcg tgcattgttct tcgttcacta caagcaagaa 120
tgagaagana atcaaactac aatcttcac caggaccctc tcttctcacc atcattagaa 180
actctaaaca actctataaa aagccacagc agacaatggc caagcttgcc aaaacctatg 240
gccccataat gcgtttcacc ataggccatc aaccaccata gtaatctcct caataga 297

<210> 2476
<211> 292
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556437H1

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cactcactat gcctgacttt cttgccacaa acccacttac cttttcagct gcagaatctc 180
caagattccc ctctctcaat tcacgcccaa ctcttacacc aagaacccaa ctcaacccaa 240
attccccgtg cctcttttct cccaaaccat ccaaaaccag ttgcaataac aa 292

<210> 2477
<211> 101
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556438H1

<400> 2477
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nacnnacnaa gcattaccag ttcccaattt cacagaaac a 101

<210> 2478
<211> 292
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556439H1

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 tngttcctan caaganacat tncctggcac agtaacttga ggttgagcct caaaaccaga 120
 aggtttgatg atatcatgat gtcacctcac tcccctatac ctcagtcccc tttgggttaa 180
 gccacaattt gagttgccat atttctctgc accatctcag aagaagtaac tgatatacga 240
 tgattatttg gttcttgatt tgttaacngg caggtacata agtgctggat tt 292

<210> 2479
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 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700556440H1

<400> 2479
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 atcattcaca ctaccctaca tacctaattt attaaattct atgctaccaa ataaatttgt 180
 agttatttga cattgatgac tttgaattta tatacataat tacct 225

<210> 2480
 <211> 286
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700556443H1

<400> 2480
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 agttgttcaa ctggccaatg gtgagagatc atatcacata ttttatcaac tttgtgctgg 180
 atctttcttct gatcttnaga gagactgaat cttagagcag tctgtgaata taaatatcta 240
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<210> 2481
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<212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700556444H1
 <400> 2481
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 tgtaaacatt caaggaaaga gtcaccttgg tccagttagc tcaaggatta cagctggagt 180
 acatggtgtc gccaacctg atattgatca tatttggcgt ggagttattg caaaaggggg 240
 aactcctgtt tgccgtgcta gatgtgtacc aattgggaaa ggattg 286

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 <211> 278
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700556445H1
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 ttaatcactt tctttaagga aactaattaa catgggagga aggggtcaca tggggtggtt 180
 cctcttctgt tgttgttctt cttctctcct tttntttgtt gctcttcttc ttctgtgtca 240
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<210> 2483
 <211> 229
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 <213> Glycine max
 <223> Clone ID: 700556446H1
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 gaggattgga cgctcagaaa gccaacatct ccgccggcaa agccgtggct cgcactctcc 180
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<210>      2484
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<212>      nucleic acid
<213>      Glycine max

<223>      Clone ID: 700556447H1

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ggcgggtgaca cgcttcaaca cgggtggtct cctcgaccga accaacaatag gcccatcccg  180
aaaactcctc ccgaaaggcc actgccgttc cgacaaaaac gacgccgtcc tgaagctcga  240
ctgctaacgc ccactccgtc                                     260

<210>      2485
<211>      288
<212>      nucleic acid
<213>      Glycine max

<223>      Clone ID: 700556448H1

<400>      2485

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cgacgtcgga gtaacctcca aaaccaccag aagcagctcc aggttctggc ctcggttgat  180
tcccacttcc accgatcaca tcatcgctgc cgagaagcgc cttctttccg tcgtcaagac  240
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<210>      2486
<211>      290
<212>      nucleic acid
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<223>      Clone ID: 700556450H1

<400>      2486

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gatggctgtg ttgccaaagt tgctgcgaac tagaaatgat ggaaccttgc tccagtgtca 180
aagacaggat aggggtatagc atgattgtag atgctgagga gaaaggactc atcacaccgg 240
gtgaaagtgt cctcattgag cctactatgg aaacactggc ataggtttgg 290

<210> 2487
<211> 294
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700556451H1
<400> 2487

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atcaaataac cactcaccac ctctcgagat attagttcga ggaccagaag atttctcgct 120
ctggaccgga cctcccttcg cgaacgggtca accaagcatc aagctcgaga aagtgaatg 180
catcaacgcy aagttcagcy acgacggatc caagctcatg gtgacaaaat cgaactcgct 240
gattagcgtc tacgattgca gaatcgccga agagattagg gcttttgaag tccc 294

<210> 2488
<211> 291
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700556452H1
<400> 2488

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gcccttgga gtagaacagt aagagaacct agagttgtag ttcagacaac cagtgcatt 180
gatatactag atgatgggta tagatggaga aaatacgggc agaaagtagt gaagggaat 240
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<210> 2489
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<213> Glycine max
<223> Clone ID: 700556453H1

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 cgtgaaanag gnatcancat tgatattgct ttgtggaagt ttgaaacaac aaagtattan 180
 tggcacagtt attgatgcgc ctggacatag ggatttcatt aagaatatga ttactgggac 240
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<210> 2490
 <211> 288
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700556455H1

<400> 2490
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 ctaggaatag gcctancagt agacacagct tattaatact ctnttggacc taacaatagg 180
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<210> 2491
 <211> 290
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700556456H1

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 cagaccaga gtgttgttgt ccatgggatt gctgggtctg gttcagtggg ctttagccac 180
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<210> 2492
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 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700556457H1

<400> 2492

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 tgggaccct cactcacatg gacgcatcaa cggctttaat gatcctatcc gcaatagcgg 180
 cctatttaat atgggttcacc ttcgtcactc gctncctaaa aggtccacgt gtctggcccc 240
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<210> 2493
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 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700556459H1

<400> 2493

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 tcaaggccaa gatccaggac aaggaaggaa ttcccccgga tcagcaacgt ctcatcttcg 180
 ccggaaagca gcttcgagga cggccgtacc ctcgcccgac tacaacatcc agaaggagtc 240
 aacccttcac cttgtccttc gtctccgtgg tggcatgcag atcttcgtc 289

<210> 2494
 <211> 285
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700556460H1

<400> 2494

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 ccaaaccaaa actaaaacaa tggtgtctgt ctgagtttac attgagagtg cccaagttcg 180

aattcgaaag caaaaacatg tttttggcga gacccatttt ccgaggaccc tccctttggg 240
cgttgcactc ttcttatgca ttttctctg cctctgcagc tgcta 285

<210> 2495
<211> 285
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556461H1

<400> 2495

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gatatgccaa tagtggtatc cttattcttg tgatatacta gtttgtatga tcatattttc 180
tcggattgtc tagcaagttt agctcaattg gacgttgaac gaattattat aaatctatta 240
agattatctt caatttctac gaaaaaaaaa tattttatag aattt 285

<210> 2496
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<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556462H1

<400> 2496

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gccaacgttt gcttcccctt ggacttttgc catttctgaa ggagctttca attgaagggc 120
ttgatgggat tgtgagtatt aatgctgatt ttttcgggag tagctctgtt cattacatcc 180
ttggaatctt tgaggttctc caatatgaag gaatgggaag aatgggaatg taaaggtgtg 240
acaggtgctt tccacgtctt caacgtcttt ctatagggta t 281

<210> 2497
<211> 201
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556463H1

<400> 2497

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aaggaaatcg tgggaagtat ggtttaggct ataagcccac tcaggcgaac atgaaaagaa 180
gcatcgcgga aggaaaaaaa g 201

<210> 2498
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<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700556466H1
<400> 2498

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atgaatcgcc accacgatcc caatcccttc gaagaagaag aagtcaatcc tttttcgaat 120
ggcactactg ctctgcac aaagtcacgt attccaccat tagcatctna ncnactgggc 180
tttggtcaaa ggcattgatgc tacagttgat attccttgga tactacaaat gactccaaga 240
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<210> 2499
<211> 289
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700556467H1
<400> 2499

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aggaagagct catcnnnnnn nnnnnnnnnn nnnnnnnnnc tcccgattcc gctaaacccg 180
ttactgaatc tggcaagaag gggtatgttg gcatccatag ttcgggattt cgagacttcc 240
tgttgaaacc agagcttctt cgagccatgt agattcagga ttgagcate 289

<210> 2500
<211> 285
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556468H1

<400> 2500

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ggctgctcat caagtcatgg tccaaaccta tttaatgtgt accgtatggg gtgaacctct 180
ctcccaaace tctcaatcat ttatgcctga attgatatat ggagtaaate ggagttgtca 240
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<210> 2501

<211> 286

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556469H1

<400> 2501

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ttcaaagaca aagaatactt cactcgtgac cagatgtgaa attggtgaca gtctcgaaga 120
attcctcaca aaagcaacac cagataaggg gttgatcagg ttgttggtgt ccatgggaga 180
agcattgaga acaatttcct tcaaagtga gacggcttca tgtggtggaa cacaatgtgt 240
taatactttt ggggatgagc agcttgagc ggatttgcta gctatc 286

<210> 2502

<211> 100

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556470H1

<400> 2502

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gctctaccca nacatgctgc tgatcacaa acacacaaa 100

<210> 2503

<211> 283

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556471H1

<400> 2503

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 atgctctaata tcttggggcc tcaaggactt gtgcacagga tgaagttttg aggatctctg 180
 tgccctccaca gactggtgat gttccttgca gacccttata gcctcaatgg tgatgttatg 240
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<210> 2504

<211> 278

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556472H1

<400> 2504

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 ttgaggctga agctaggcca aggacattct ttgtatttgg agattcactt gttgatnatg 180
 gaaacaacaa ttacttgngc taccacggca cgtgccgatg ctccccctta tgggattgat 240
 taccctccaa gtcataagacc aatggtcggt tctccang 278

<210> 2505

<211> 283

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556474H1

<400> 2505

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 aatgagaatg gtcccattat ttctttcnaa ggtgtcgaca acagtatgta ttacatgtta 180
 gcacccaagg gggagtctta taactattca ggatgtggga acacgttcaa ttgcaaccat 240
 ccagttgtgc gacaatttat agttgactgc ttaagatatt ggg 283

cagtgcacaga tctggcgaat tcgccaccgc ttcttcgcag acgcggaggt ttctgatcgc 180
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 ttccacgact atcagaaaca agccgccatg gaaatccggt ta 282

<210> 2509
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 <223> Clone ID: 700556478H1
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 gaatgaacac tggctatggt gcccgactc eggaggtgaa atgcgcaagt tggaggcttg 180
 ctgtggaagc acacaacatc tttggctttg agaccattcc tgaagagtgc gttgaagcaa 240
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<210> 2510
 <211> 281
 <212> nucleic acid
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 <223> Clone ID: 700556479H1
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 tctccgattg atcttccgat aaaagtggac cggaaatgcc ggttgccgct tccgccattt 120
 actttctcaa cctccgcggc gacgtttotca tcaaccgcct ctatcgcgac gatgtcgggg 180
 gaaatatggt ggatgctttt aggacgcatg ttatgcaaac gaaggagctt ggtacttgcc 240
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<210> 2511
 <211> 283
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700556480H1

2511 2512 2513 2514

<400> 2511
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cgtgctgtgc aagttctgga tgaaattttc cctaagaacg ccactgagca accagatttg 180
gtaattgtgt actttggtgg taatgattct cttcttccac atccaagtgg tcttggtcaa 240
catgtacctc tccaagaata cattgaaaat atgagaaaga ttg 283

<210> 2512
<211> 206
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556481H1

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aatccatggc tggcttcccc acgaggaaga ccaacaatga cttacctcca ttgctagcaa 180
cgggtgaaga gtacaatgca tgcagg 206

<210> 2513
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<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556483H1

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ttcgnt 126

<210> 2514
<211> 281
<212> nucleic acid
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<223> Clone ID: 700556484H1

<400> 2514

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tagccaaacc agcecttcag gcaaattggga aaggcttctc tgaattctct ggccctccgaa 120

gctcatcagg cttecttccc ttttctagaa aatcttcaga ggnnttccat tctgtcattg 180

ccttcagac ctatgcagtt ggaagcagtg gaggatacan gaagggtgtg acagaagcaa 240

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<210> 2515

<211> 185

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556485H1

<400> 2515

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<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556486H1

<400> 2516

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taccgcgcgg ttgatattcta tctcaaggcg ctaccncant tggatgagat agagagagag 120

aagggtgtgca gcgtgatgga tccgttgaag ctttcatacg aggcgcgtgt gcacgcgtcg 180

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ctgaggagcg gggcggagga ggtgaagtgg cgacggagaa gatc 284

<210> 2517

<211> 274

<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556487H1

<400> 2517

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gacggcgatg gttgtattac tactaaggaa cttgggactg tgatgcggtc actagggcaa 180
aaccctaactg aggcagaact gcaggatatg attaatgagg ttgatgctga tggcaatgga 240
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<210> 2518
<211> 286
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556488H1

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cagaaaagca gccaccgata ttttgcagct ctgcttcgat ggcacgagcc tggaaaacac 240
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<210> 2519
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<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556490H1

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cgtcaccta ctccattaca aagctatata gtctttctca tcccttgaat tacacttatg 180
cttcgatcaa ttcccgaata gggattctat ctatcttaat tgaagaaata tcagtgaatt 240

ctgacaatat agctctgaat tcattctccac cagggctctcc 280

<210> 2520

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<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556491H1

<400> 2520

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gcaaaaaatt gatgccttga tatctgagat tgaaagaaca gcaccaaatt tgaaggcatt 180

ggaccaatat gaagctctgc tagaaaaaga aagagctgta actgaagagt ttgaagctgt 240

caggaaagag gagagggaaa aaacacagag attcatga 278

<210> 2521

<211> 275

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556492H1

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cancctcaac cttcaacctc tccgagcgag aaccagacac aagaaagaaa acgtgttgcg 120

tcagtgttac ccctttctcc ttctctttat ctttctgaat ttggcgcggt tgcattctct 180

tcttccgaat cagagagagt ctggatttct tgttgaagat gcgagctctt ctgcatccaa 240

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<210> 2522

<211> 265

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556493H1

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ctaattgtgna tggggcattc atgctatgta caagcgact ccttcgagag ataattcaaa 120
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<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700556494H1
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<210> 2524
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<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700556495H1
<400> 2524

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ttcttatata tcccaaaaaa acccaataaa aaaggggtct ttagaagggt ctggttgatg 180
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<210> 2525
<211> 271
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556503H1

<400> 2528

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tcgagactcg ttgaagctat ttgaggacga ggaacctgtt ttgcgtctga ggagactatt 180
gaaggaagca gttgctgaag agagatttca ggatgctgct agttatcgtg atgagctaaa 240
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<210> 2529

<211> 292

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556504H1

<400> 2529

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aggagcgacc cggagttaca tggccgaagc agttgaatgc tccacttgag gtcgtggatc 180
cagagattgc tgatattatt gagcttgaga aagctaggca atggaagggg ctagaattga 240
taccgtcaga gaatttcacc tctgtgtctg tgatgcaagc gggttgatcg gt 292

<210> 2530

<211> 288

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556505H1

<400> 2530

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atacaagtct gaggacgagg agcataagaa gaaagtggag gccaaaaatg cattggaaaa 120
ttatgcctat aacatgagga acacaatcaa ggatgacaag attgcttcca aactgtcttc 180
tgatgataag aagaaaattg aagatgcgat tgagcaggct atccatggct agatggaaac 240
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<210> 2531
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 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700556506H1

<400> 2531

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 tcttgccgca ctctattgc agggatatgct tgtagaaacg aggatggcaa ttgtttgttt 180
 agaggattag ttgcttcccc tgatggaacc agagtgttag agacatccag ggttggtcca 240
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<210> 2532
 <211> 287
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700556507H1

<400> 2532

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 gacctggggt ttcagctccc agttcatcct tctttgggag cagcttgaag aaggttattn 180
 gctcaagggt ccccaacaca aagatttcct ctggaagctt caagattggn gctgnagaag 240
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<210> 2533
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 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700556508H1

<400> 2533

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 gcctctcaat tacgcgagaa attacctcgt tgaccttctg gagagttgctg tggagagggt 120

gatttacntg gactccgatc tggtagtagt ggatgacgtg gcgaaactgt ggagcgccgg 180
tctggactcg cgtgccatcg gcgcgccgga gtactgccac gcgaacttca ccaagtatct 240
cacggcgggg ttctggtctg agtcgagttg tcgggga 277

<210> 2534
<211> 285
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556509H1

<400> 2534

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gggccaagat tccttctctt gggtaggga cttggcaagc tgaacctggt gttgtagctg 120
aagctctcac cacagccatt caggttgat acaggcatat tgactgtgct agtgcgtata 180
agaatcaagc agagattggt tctgctctta agaagctttt tgatgatggt gtggtgaagc 240
gtgaggactt atggatcact tccaaactct ggtgttcaga tcatg 285

<210> 2535
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<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556513H1

<400> 2535

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ccatgaagaa acaaggctag cagttgtctg tgaaagggcc tttcttcaga ctttggatgg 120
gtcttgccgc actcctattg caggggatgc ttgtagaac gaggatggca attgtttggt 180
tagaggatta gttgcttccc ctgatggaac cagagtgcta gagacatcca gggttggtcc 240
atatgctgtt gaagatatga ttgagatggg taaggatgct ggcaa 285

<210> 2536
<211> 288
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556515H1

<400> 2536
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 tactctgaat tttccggcca gaaaccggcg aggtcgccgg agaaatcgag cttctctcag 180
 acttgcagtc tgttgagtca atacatcaag gagaagggtg gcttcggaga tcttaccctc 240
 ggaatgacat catgtgggtc acctgagaca tctgtcaatc tgctacaa 288

<210> 2537
 <211> 158
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700556516H1

<400> 2537
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 actctgttct cgtcgcatgc acataaacia taacaaatgg cttccacaac tatgttggtg 120
 ntggctgtgt tcatgattct atgtatatca caccctc 158

<210> 2538
 <211> 296
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700556517H1

<400> 2538
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 cactggccac ctgatctaca agcttgaggg cattgacaag cgtgttattg agagatttga 180
 gaaggaagct gctgagatga acaagaggtc tttcaagtat gcttgggtgc ttgataagct 240
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<210> 2539
 <211> 295
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700556518H1

<400> 2539

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 gggcacttga tgacactatt atcacaggag ttcctactac aattgattat cataaactta 120
 tccttgacat agaggatttc agaaatggaa aggttgatac tgcttttatt ccaaaacacg 180
 aggaagagtt ggcaatggta agaaccat ataaccttga aaatattaat gtccctaaca 240
 atggatttaa aaattacttt cgttggtgaa gctgaccant ttggtaggaa aactc 295

<210> 2540

<211> 289

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556519H1

<400> 2540

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 gcagtagttt tggtagcatg gccatgccat ggcgcaggct accaaagggt ccctctccga 120
 atgaaaactg gctatggtga gcgttcttcg gaggtaaaat gcgcaagttt taggcttgct 180
 gtggaagcac acaacatccg agcctttaa accattcctg aagagtgcgt tgaaccaaca 240
 aaggactaca ttaatggcga acatttagat cagatctaaa acagttaac 289

<210> 2541

<211> 237

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556520H1

<400> 2541

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 gngttatcag gannccctct gaatcngggg attaagagag gattntgcan cagagggtaa 120
 agttgtcagc aacaacnggc ccncatgcag caanctttgc ttcancagnn gcagatgaac 180
 caccenggna tgctcgccgc tgctatgcct canatggagc ctgttccaat ggaaatg 237

<210> 2542
 <211> 289
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700556521H1
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 cgcgtttccg aattcagaat cactacgttt ctcgnttctc ctttcgttcg angcatgaat 120
 gcaggggctt naccgcttca gacttcagta ncagagtgac agancattag naactcaaaa 180
 aagtangcgn cacgatgtna gnaaccatgg ancgtagaaa cnacnacagc gccaaaagcg 240
 tgtcaacggt cngcgacgcg tgggctnctn tacgacgnnn ngagtgcaa 289

<210> 2543
 <211> 283
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700556522H1
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 tcagcctttg cctcacaatc tatgggattt catcttttaa cgaaggagac ccatccactg 180
 ccccgtcact gaccttgacg ggccgcaaga aggagccga tcagctccaa actgctgatg 240
 ggtgggcaa gttaccgga ggcttcttct tcggaggcat tcg 283

<210> 2544
 <211> 284
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700556523H1
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 aatttttaggt tcttcgttac gcgttggtt gcnttggtgcg tgagaaagtg cgcgtggtga 120
 aaaagcatgg ctctcagct cctgagacga accttcggaa gtcgtttcct tgcaaacctt 180

agggccttct ctccgtgct tccactccgc atccgcgcca ctctcttccc cggcgacggc 240
atcgggcccc gagatcgccg attcgtcaaa cagatattcc aagc 284

<210> 2545
<211> 284
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556524H1

<400> 2545

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tattggaaga aagttcgaag ataaggaagt tcaaagagat atgaagcttg ttccttataa 120
gattgtcaac aaggatggaa aaccttacat acaagtgaag attaaggatg gtgagaccaa 180
gggtgttnagc cctgaggaaa tcagtgccat gattctgact aagatgaagg aaactgcgga 240
agcattcctt ggaaaganat taatgatgcc gtggtcantg tccc 284

<210> 2546
<211> 279
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556526H1

<400> 2546

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tttgttattc aaatcaccac tagaatcata catatttcac accttgctc tctctctacc 120
atccaaccct tccaccaat atttttggac catcttaatt gttaccaatc tagttanggg 180
gttaaagact ctctgttttt aaaaaaanna anattgnaaa aanaaaaang ggggnccgcg 240
ntnnntgatt ccnggaccgg ngttnaatng ggnengntc 279

<210> 2547
<211> 280
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556527H1

<400> 2547

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 ctcacctgaa aatgtcttgc tgcggtggta actgtgggtg cggaagctcc tgcaagtgcg 120
 gcaacggctg cggaggctgc aagatgtacc cagacttgag ctacactgag tcaaccacca 180
 ccgagacctt ggtcatggga gtggcacctg ttaaggctca atttgagggt gctgaaatgg 240
 gtgtgccccg tgagaacgat ggctgcaa at gtggaccaa 280

<210> 2548
 <211> 283
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700556528H1

<400> 2548

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 acaggagcca aacccttctg gcctctgcta ttggaggcaa agttggtgct gctgttactg 180
 ttaatcccag aagactcatt gtggtagctg ctgctgcacc aaagaagtca tggctccctg 240
 gtgttagagg tgggtggcaat ctcgtcgacc cagaaggctt gat 283

<210> 2549
 <211> 286
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700556529H1

<400> 2549

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 gagcttcgtn caccgtccac tgtcgaggta agngctgtga ccatgtcgnt tccaccattg 120
 ttgtcggcga tagggtagat tgttgatctg aaagtggaga tgtgagtgtt acggatcaac 180
 ttgattcgta aactgctncg aagaaagttt acggatcaag ttgatccgta agcatcttcc 240
 agatcaactt gatccgtatg atacttacgg ancaacttga tccgtg 286

<210> 2550
 <211> 284

<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556530H1

<400> 2550

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ggcgctgaac caactgaacc gcatgcgcan aaccaaaggc gtgatcattg gggtggggct 120
tggcggtttg gctggcttgg tggctgcgcc gcatgcatcg gcggcgggcg cttctgaagt 180
ggcgggcatg gctgaagctg cctcgaacga caacagggga cagcttctgc tgtttgtgg 240
tacgccggtt attgcttggg ttcttacaac atcttgcagc ctgc 284

<210> 2551
<211> 284
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556531H1

<400> 2551

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ttatgcatgg aaaaggatat tgagctccgt ctgagtgagg aagctgctat gctcagatcc 120
tttgtggacc aacctgcttt tacggatcta cattggggat gtttgttcct gctatcaaag 180
gacnaggaac tgaggaacag cagnngaagt ggntgccttt ggctcataag atgcaaataa 240
ttggttgtn agcccanact gaacttggcc aggatctaatt gtgc 284

<210> 2552
<211> 158
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556532H1

<400> 2552

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cattatctgc agcccctaataa aaattttggc gtgactgaaa ttcatganca acaanaatna 120
aacaccanncc aactanncc aacnncnaa naagctcc 158

<210> 2553
<211> 296
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556533H1

<400> 2553

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nanttttgta gcatggcaat gccatgngna acgatatgtt nccttctccg aatgaaccac 120
tggctatggt gcncgtactc nggaggtgaa aatgcgcaat tgggggcttg ctgtggaagc 180
anacaacatc tttggcttng agaccattct tgangatgcy ttgaagcaac aaaggantac 240
ntccatggcg aacatataga tcagactcna aaacagttat ccacaagtta tttnt 296

<210> 2554
<211> 292
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556534H1

<400> 2554

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ctcacctgaa aatgtcttgc tgcggtggta actgtggttg cggaagctcc tgcaagtgcg 120
gcaacggctg cggaggctgc aagatgtacc cagacttgag ctacactgag tcaaccacca 180
ccgagacctt ggtcatggga gtggcacctg ttaaggctca atttgagggt gctgaaatgg 240
gtgtgcccgc tgagaacgat ggctgcaa atgtggacaaa tgctcctgca ac 292

<210> 2555
<211> 291
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556535H1

<400> 2555

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aatgcataga cacaattag aaagagatga ccaacttttc aaggccttcc aatattttga 120
taaagacaac agtgggttta ttacaagaga tgaactagaa acagccatga aagaatatgg 180

tatgggtgat gatgccacaa tcaaggaaat catatctgaa gttgatacaa ttatatctga 240
agtggacaca gatcatgatg gtagaatcaa ctatgaagan tctctgcgat g 291

<210> 2556
<211> 151
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556536H1

<400> 2556

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gcagctcctc cttccttgaa gcacaaaatc atctcttgta acatccaaaa ttatcacaaa 120
aaanannaaa aangggcggc ngggtctaaa a 151

<210> 2557
<211> 283
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556537H1

<400> 2557

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acttgatacc tctgattctt tctttgctta gaattccaca gaatatggag acngttcttt 120
tcaatcactc cccacctttg gaattcaagg gtttgagcaa ggaggaggaa gactcattgc 180
tagggcaagt ggaaatatgg aggtacatga catgcttcac ggactccgtg gccttgaaag 240
ctgtcataga gcttcgtata gcggacatat agaccgntat ggt 283

<210> 2558
<211> 273
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556538H1

<400> 2558

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ccactgctgc tggcttcctt ggcatgtcag aaatgcttgg aaaccccatc aacctcagt 120

gtgccacaag gccagctcca tctgcctcta gccctgcctc cttcaagact gtggctcttt 180
tctccaaaaa gaaggctgca cctccaaaaa aagctgcagc tgctgctcct gccaatgatg 240
agntgccaaag tggtaggtcc tgacagaaga tct 273

<210> 2559
<211> 282
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700556539H1
<400> 2559

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acgccttcca accctgcaag cccaaaaatg gaacaacttc tcagcacctc ttagttgccca 120
ccgccaaagt aaatgtgctg tccaagtcca accacaagta gcaccacgaa ttacacctga 180
tgagagcctg caggtgaaga gaagaactct cataggcctt ctagcattga tgctgtcctt 240
gcttattctt cattgcaagc agcaccagca gctgaaaatc cg 282

<210> 2560
<211> 281
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700556541H1
<400> 2560

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atcagcattc actggtcaaa ctgctctgaa gcagctcaat gaggctgtcc gcaagaccgg 120
tggcgccggc aaaggctgca ctaacatgcg ccgcaccgtc aagagtgtc ctcagagcat 180
ttggtatggc cctgaccgtc ccaagtactt ggggtccattc tcggagcaga ttccatcata 240
cctgaccgga gaattccctg gtgactacgg atgggacact g 281

<210> 2561
<211> 279
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700556542H1

<400> 2561

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actgagttaa ctgagagcga gtgaaagtgt tgctgctga tgtctggtgg tategcccg 120

gnacgcctca ccgaggagcg caagtccgtg gcggaagaac catcccatg gttttgntgc 180

gaaccggaga cgctgcccga tggaaccgtg aacttgatgg tgtggcattg cactattccc 240

gggaagactg ggactgattg ggaagggtggc tattccgc 279

<210> 2562

<211> 283

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556543H1

<400> 2562

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caccancanc cactccatcg tttagtcctt ttganganac cagtctcagt tacttagaga 180

caccgtggac gaaaggaang cgttctaagc gtanccggca cggagcaaca actgcaacac 240

ccttcatgca ccgaggaaga gtacctcgct ctttgtctca tca 283

<210> 2563

<211> 282

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556544H1

<400> 2563

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gggaaagttt agttcaagtt acagtacttc tgattttgtt cactttggag ttctacttcc 120

ctttctcttg ttatcacagt tgttctttca acttgcatgg tgtggctcca tagtaaagtt 180

ccttcttgga ttagagggac ccttctctt tgttcttgaa accgggtatg tgggagtggg 240

tgaatcagag gatgtgcagg cattctacta cttcattgag tc 282

<210> 2564
 <211> 282
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700556545H1

 <400> 2564

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 gaaaccaaga atttttgaag ggtagcatca acaagaagtt ctggaaatgg agatcaccaa 120
 tgtcagcgag tatgaagcta ttgcaaagca gaagttgcc aagatgggtgt ttgactacta 180
 cgcactctggt gcagaggacc agtggactct gcaggagaac agaaatgcct tttccagaat 240
 tttgtttcgg ccacgtattc ttattgatgt gagcaagata ga 282

<210> 2565
 <211> 282
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700556546H1

 <400> 2565

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 ctgaattcag gacacaaaat gccagttata ggcatgggaa cttcagtgga gaatcgtcca 120
 tcaaattgaga cccttgcttc tatctatggt gaagccattg aggtgggtta ccgtcatttt 180
 gacactgctg cagtgtatgg aacagaggaa gccataggcc tagccgtggc caaagccata 240
 gacaaaggcc ttataaagag tagagatgaa gttttcatca tt 282

<210> 2566
 <211> 277
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700556547H1

 <400> 2566

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 aatctacaac catgtcactg gtctcctgga tccccctgag ctcatataac cccccaaaat 120
 cttagtcatt gaaggcttgc acccaatgta tgattctcgg gtcagagatc tcttggactt 180

tagcatctac ctagacatta gcaatgaggt caaattcgct tggaaaattc agagagacat 240
ggcagagcgt ggacacagtc ttgaaagcat caaggct 277

<210> 2567
<211> 225
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556549H1

<400> 2567

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gtagttgttt gtaactgtag caacatgaag atggttagaa agttggttgt ggtgaggctg 180
tgntgggcat cnetgtgttg agctctctcc ttctgacaac ctcg 225

<210> 2568
<211> 289
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556550H1

<400> 2568

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tcgatgatat aacagatttg ctcggtaaat ctctcctctt agagcttgtt agctctgagc 120
ttgaccccggt gacgggacta gagaaggaaa cactgaaagc gtatgcacac aaagcaggaa 180
atggtgagga gtcggttaag tacgangcta aatttgaagt tccaaatgat tttggagang 240
ttgngctgt ncttgttgag aatgagcatc acaaggagat gttccttga 289

<210> 2569
<211> 287
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556551H1

<400> 2569

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 ctattccgat tccatnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn ccttccttga 240
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<210> 2570
 <211> 279
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700556552H1
 <400> 2570

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 ttggtttcag ttcttcatct ttatgatgtt gtcaacaccc ctggtgtcac agctgatgtt 180
 agccacatgg aactggtgc tgtggttcgt ggcttctggg gcagcaacaa cttgagagtg 240
 catcactggc atggacttgg taatcatacc gctgggggtg 279

<210> 2571
 <211> 282
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700556553H1
 <400> 2571

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 cctctccgaa tgaaaactgg ctatggtgag cgttcttcgg aggtaaaatg cgcaagtttt 180
 aggcttgctg tggaagcaca caacatccga gcctttaaaa ccattcctga agagtgcgtt 240
 gaaccaacaa aggactacat taatggcgaa caatttagat ca 282

<210> 2572
 <211> 278
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700556554H1

<400> 2572

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acacacattc ttaatttttt tggctggcct atagtaaaaa ctcatatcaa tgtcctcaag 180
aacgttgagg agaagactcc atcatgggga tgttgatggc aaaaggcagg agcatttgga 240
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<210> 2573

<211> 280

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556556H1

<400> 2573

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cgaagagaga ttogaagatg gatggaagag ccgttgggtg ctatccgatt ggaaaaggag 180
ncaaggaaaa gcgggtacct tcaagcacac agcaggaaaa tggctctgggg atcctgatga 240
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<210> 2574

<211> 277

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556558H1

<400> 2574

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gcaactagtg ccatcaanca ggttgcttct ggaaggnttn gtgtcacccc aanattcttg 180
gcaaagtctg atcagttaga aatcaagatn gcacaagggtg caaaacctgg tganngtgga 240
caattgcctg gnaaaaaagt tagcatgtat attgccc 277

<210> 2575
 <211> 278
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700556559H1

<400> 2575

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 aggcggcgaa tgggaataat aatgggtggt ctagcatgct gccggagatc ctcggcgaga 180
 tcgtgcggcg cgtggacgcc gccgaggagc agtggccgaa ccgccaaaac gtcgtcgctt 240
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<210> 2576
 <211> 271
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700556560H1

<400> 2576

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 ctttttgtga agtaaaaaaa ctaccctcga tccatgcctc aaaagggttg ataataagta 180
 aaaaaaatca atgaattcat gataaaacct ttctgcgttt ttttattata aatttttttg 240
 tcaataaagg gatcaagggg ttgggggatc a 271

<210> 2577
 <211> 281
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700556561H1

<400> 2577

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tcgagctctt tatttggaga atctctaaga gtggcatcca aatcaacact aaaggtttca 180
aagacaaaga atacttcact cgtgaccaga tgtgaaattg gtgacagtct ggaagaattc 240
ctcacaaaag caacaccaga taaggggttg atcaggttgt t 281

<210> 2578
<211> 283
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556562H1

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ggcctgatca gaggaggaac tttgatgtca agggcagtga tttcaacaac tcatcaaagc 180
cttttgatga tgatttcaat gatggctgga agatcaccaa ttccaatgga ccccttttct 240
ctatgcctca caacaacaac actcacactc ttgaagttgg agg 283

<210> 2579
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<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556564H1

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atztatctcc ctctttctca cacttccaca attccaatca caatcttctc naattaacct 120
cctctctcac tattccatct tcttaattac tcatcactct tcttagaaac tagtctaaca 180
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taacggatgt cgtgttttgc gcaaaggtg tagcgaagat tgtagc 286

<210> 2580
<211> 292
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556565H1

<400> 2580

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tacgacaagg agcgacccgg agttacatgg ccgaagcagt tgaatgctcc acttgaggtc 180
gtggatcctg agattgctga tattattgag cttgagaaag ctaggcaatg gaaggggcta 240
gaattgatac cgtcagagaa ttccacctct gtgtctgtga tgcaagcggg tg 292

<210> 2581

<211> 293

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556566H1

<400> 2581

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agagatacca gatgtatcct gtctctcaaa attgganaaa ttgtcatttn anacattggn 180
aggaatttat ttncaattca cccttcagtt ggtnnnttg acaagcttaa nntcntgggn 240
gctaanggtt gccganagct tgaganactt ccaccgttga ngtngcanc tcc 293

<210> 2582

<211> 284

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556567H1

<400> 2582

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ctggtgaggc accttatgtg aggctcacgg ggcttggtac ctctatggaa gcacttgaag 120
ccacgggaaa acgtttgtct gattttgcaa acaaactttg ccttcccttt gagttcttcc 180
ctgttgctga gaaagttggg aaccttgacn ctgagaggct caatgttagc aaaacagaag 240
ctgttgctgt tcaactggtg caacatccct ctatgangtc atgg 284

<210> 2583
 <211> 278
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700556569H1

 <400> 2583

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 aagctttcag taacatggct gttggttata acaacgtgga tgttgatgct gcaaacaagt 180
 atggtgttgc tgttggaaat actcctggag tgctcactga gacaacagca gagttggcag 240
 ctactaact ttggcagctg ctagaaggat agttgagc 278

<210> 2584
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 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700556570H1

 <400> 2584

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 tctgccactt atgacggtcc aattcctggt tgcaagtctg aaattccatg cccctacagc 180
 ataacttacg gagacggaag tgcgactact ggatactatg tccaggatta tcttacttat 240
 aaccatgtca atgacaatct tcgtacagca ccacaaaa 278

<210> 2585
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 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700556571H1

 <400> 2585

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<210> 2586
 <211> 277
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700556572H1

 <400> 2586

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 gaaatatttc gccctcaaaa tttagacagt ccagttgaga acaccttaaa aggaaatgnc 180
 gaattaccac cagatgcctg tggcttgaca aggggaagct gttggatgct ctccataaag 240
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<210> 2587
 <211> 275
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700556573H1

 <400> 2587

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 cttgacatag aaggcagaga ccagacagaa gagaacatga caatatgaca tctatctagt 180
 ggagtaataa tttatttgty atggatgaaa ctgaagtgga aaatcccata ttcatggaat 240
 taattctgaa gataagagaa atgaaaatca agagt 275

<210> 2588
 <211> 276
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700556575H1

 <400> 2588

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cgattgcaaa ggccaactcg tttccgctt cgactcctac ggtccccgcg cgcgtgacaa 180
 ggacgagctc gttctcatgg atcccatgg ccgttctctt ctactctcc gccgaaagaa 240
 accgagtctt catcaagctg ggaaggcttc aaaggg 276

<210> 2589
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700556576H1
 <400> 2589

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 tgaagcttca tctaaagtca gcgtagatcc tttgccaaca agtgggtttc aaagggctt 240
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<210> 2590
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 <223> Clone ID: 700556577H1
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 ctaccgcgcg caatccctct tcgatttcgg aaccctcgct cccatcgcca cgtacttcga 240
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<210> 2591
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 <213> Glycine max
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<400> 2591

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cttctctgaa ttctctggcc tccgcagctc atcaggcttc cttccctttt ctagaaaatc 180

ttcagaggat ttccattctg tcattgcctt ccagacctat gcagttggaa gcagtggagg 240

atacaagaag ggtgtgacag aagcaaaaact gaaggttgc 279

<210> 2592

<211> 275

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556579H1

<400> 2592

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gcagacaatg aggatggagg ggataagaca tctcgtggga atgaatggga ggttgtatct 120

ctcacagcat caacatatgn ngctgctcct ggtcctgatg aagttgagat gaaggatgat 180

gggaaagaag atgtatatgg gcaggatgaa ggagaaacgt cacatgctta ttcagtctag 240

acactntgtc ttccacccat cagcagaaaa ttgcc 275

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<213> Glycine max

<223> Clone ID: 700556580H1

<400> 2593

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cattctctct gcctatacaa ccccaaaaact ccattctccc actttcaatt ccaaccttcc 120

tccttccttc catctccttc ttctttgaag cctcagaagc ttcccttcag aattcgctat 180

ggttctacna tcagagccac gtcacatcc tcaaccctt ccgcaaccat tgcngaacct 240

gaaggcataa gattaaatcg attccaacca nccccattga tggnc 285

[illegible]

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<400> 2595

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gctcatcagg	cttccttccc	ttttctagaa	aatcttcaga	ggatttccat	tctgtcatgc	180
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actgaaggtt	gccataaacg	ggtttggaaa	gatggaa			277

<210>	2596
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<213>	Glycine max

<400>	2596
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939

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<211> 275
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556587H1

<400> 2597

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gttcatcgcc tccgagaact tcacctcctt cgccgtcatc gaggccctcg gcagcgctct 240
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<223> Clone ID: 700556588H1

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gtatatgatg acgaagtgag gaagtggatt tctggtgttg gtgttgacgg cattgggaag 240
aagctgtgaa ctcaaaagat ggacctccaa cct 273

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<213> Glycine max

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<400> 2599

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gatggcagga acagaattat tgaatataag aatcctactc tttacaagga tgatgaaaag 180
ttgaaggcct tgagtgggat gaaagaaaca gggatatgttc ctgacacaag atatgttctt 240
catgacattg atcaggaagc aaaagagcaa gcct 274

<210> 2600
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<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556590H1

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agagtgtgta gtgcagagca aaggggtgggg cacctggatt caaagttgca attttggggg 180
ctgctggggg aattggtcaa cccctttctt tgctgatgaa gatgaaccca ttggtttcag 240
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<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556591H1

<400> 2601

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gttagccaag gctattgctg gtgaagctgg tgttccattt ttctctatat caggttctga 240
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<211> 278

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 <223> Clone ID: 700556593H1
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 <212> nucleic acid
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 ctctgttcag agtgatatca nattgtggcc ttttaaggtc attgctggtg ctgctgacaa 240

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278

<210> 2605

<211> 299

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556601H1

<400> 2605

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<210> 2606

<211> 293

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556603H1

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<210> 2607

<211> 290

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556606H1

<400> 2607

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<210> 2608
 <211> 291
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700556608H1
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 <212> nucleic acid
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 <212> nucleic acid
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<210> 2616
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 taccacatca gaaccctcac ttcagtcctt ggcagtgagg aggctgcaaa ggaagctttg 240
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 <223> Clone ID: 700556619H1
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 agctaaatat ttagctaatt gtactatctt gactgccaca cccaagcatg gagcttctta 120
 tgtatagaga agtatnctta aanctatggg aggcttcatt caagatttgg ccctcagttg 180
 gcagctggaa attcattctt tctgggtagn aactggctgg ggtttgaccc aactaactac 240
 tttncncgtt tttnttacac attaancgta ntaataatg cnggtaccat gt 292

<210> 2618
 <211> 288
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700556622H1
 <400> 2618
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 attgnaattg caccaaattc acaaaaggca gcacacttac acactannat gttcantgat 120

gctataaaca cacttgtgtg tgaagttata ttcctagaaa agaaatatta ctatcctttt 180
 gaaaatcatt tgaaattttt aactccatct tcttcacctc tggatctgat cttcgcacgg 240
 tgccatggat cgaatcctga aagcggcgag agcctctggt tctctcaa 288

<210> 2619
 <211> 287
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700556623H1
 <400> 2619

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 ttggaaggcg tttttccgat gcatcagtac aaggtgacat gaaattgtgg ccgttcaagg 120
 tgattcctgg ccctgctgag aaacctatgt tgtggtgaac tacaaggggg aggagaaaca 180
 gttttccgcy gaagagatat cctccatggt tcttatgaag atgaaggaga ttgcggaggc 240
 gtatctaggt tccaccataa agatgcggtt gtcactgtgc ctgctta 287

<210> 2620
 <211> 288
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700556624H1
 <400> 2620

gaaattatca atataatact ttgcccac aacgtgttcc gcgagtgttt ttagatcaa 60
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 tattttttga atttgtgatt ttgaaacacg catattctta accatattta catttattaa 180
 gaatcatctg totaatcata catttacatt tacatttact tattggattg ttaaaatatt 240
 cgtgggaata acgtagatat ttacggtttc tgctattttc ttgtttac 288

<210> 2621
 <211> 56
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700556625H1

<400> 2621
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<210> 2622
<211> 280
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556628H1

<400> 2622
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tgccgaccat ggtccttgtg tctctggtgc tcacaatact attgtgacag caagggcagg 120
gaaagaccta gtttccagtc tgtatcaggt ttgctaacaa ttggtcctcg atttgggggt 180
gccatcgatg atgctgctcg ctacttcaag gatgctcatg acagggcact tactccttat 240
gagtttggtg aaggtatgaa aaagaaggga attcgtgtgg 280

<210> 2623
<211> 288
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556629H1

<400> 2623
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ctggcaacat ggaaatgcct gaggaggaaa gtttgagagt ccgacacctga aggttgggga 180
ggagaaggag attgggaaaa tggggctgaa gaagaaattg ctcaaggaag gtgaagggtg 240
ggacaccctt gacagtggag accaagttga agtgcattat actggaac 288

<210> 2624
<211> 290
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556630H1

<400> 2624

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cggagaagtt gagggattgg tttctcggaa nattgctagc tggggacttg ttctgaattc 180
attcgcggag ttggagaagc cttattttga gtttctgaga aaggaattgg ggcacgatcg 240
tgtgtgggcg gttggaccgt tgctccctga ggacgcgaaa gaggagcgag 290

<210> 2625
<211> 294
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556631H1

<400> 2625

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gttcggccgc gccctcttct tccaagccga cggctcctac agcatcactc tcacccccgg 180
cgacggcatc ggccccgaaa tcattctcgt ggccaaagac gttcttgtcc tcgccgggta 240
tctcgaaggg attaaatagc attccgcgag atgcttatgg gtggagctgc attg 294

<210> 2626
<211> 300
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556632H1

<400> 2626

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gcgggagaaa tctcttcttt aaagttgaag aagcaggact gttaaattgtg ctccacatct 180
cttctttaca tttgaagaaa atgggcctcc accccaacg gaaaagttgg ttgtgtttgg 240
aggcaatcgg tttgttgcaa aacacatttt tagagaagcc ctagatcgtg gcgagtctgc 300

<210> 2627
<211> 291

<212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700556633H1

<400> 2627

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 tcgctatgtc ggactccacc gccaaacccc tcgaccagca cgccaccacg ggctctgacc 120
 ctactgcgcc aggggttcaca tcgtgtacac gagagaccac agaacgagga gcctnncgcc 180
 taccacatca gaaccctcac ttcagtcctt ggcagtgagg aggctgcaaa ggaagctttg 240
 ttgtatagtt acaagtctgc agccagtggg tttcagctaa gcttactccg g 291

<210> 2628
 <211> 289
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700556634H1

<400> 2628

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 ataaggatg ctgatatgca ctattcaata ggagcattag ctatgtttgt taatgtcact 180
 ttatgttatg tgggtaagtc acctaagaca ctccacgtac ctacttggtg tctcttacgc 240
 ggctttaata aatcttctgc ccttggtcca tatttactaa anaaaaaaaa 289

<210> 2629
 <211> 241
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700556636H1

<400> 2629

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 gagtcagaaa caaggggaaa tgggtgtgctt ggccttgatt tttggctctg gacacccctt 180
 gtggagagtg atgttccttc agatgatggc agtgggctgc agttagatac caagtcttct 240

g

241

<210> 2630
<211> 95
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556637H1

<400> 2630

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gtaaattaga atgaactgtc agcagcattc gctcc 95

<210> 2631
<211> 282
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556638H1

<400> 2631

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gatgatanan gcttcttcca ctatgcattg cgcacttctg cgcttttggg ttccctngtt 120

gctgcttgct agcttcagct atgcccttct gcttcggcca caactgaaat tncagggant 180

gnngtganca nagatgggna ggtgataant gaagagttag cnnnancag tctacnaggn 240

catgnngnng agtccagttc nnaggattta ctccacaacc at 282

<210> 2632
<211> 282
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556639H1

<400> 2632

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gtggtgggtt tgtgagaaca agagagtgc gcttatgctg aatgggagcc cctactatgc 180

taatggcttt aatgcctatt ggntaatgta tnttgctct gatccttctc agagaaacaa 240

282

gattcatgcc	gcacctctc	cgccgccaca	gccacagcca	cagccacagc	cgttgaatac	60
tatccctttg	ctcccaatga	tgacggtgcc	ctcggtttct	ccgacgggga	tggcgccggt	120
taatttttagc	gcagagtttc	tggcgggatg	caggaaatga	taaggaagga	ggtgaggagt	180
tatatggagt	tgcacaatca	gaagaatggg	atgtgttttc	aggctgcggt	gaatgatggg	240
tttaggaagc	ttcggatgaag	cgtattggaa	ttagcagggt	tga		283

agaagaacaa	gtagttgaga	actaagaagg	agaagcaa	at	ggcttcctca	atgatctctt	60
ccccagctgt	taccactgtc	aaccgtgccg	gtgccggcat	ggttgctcca	ttcactggcc		120
tcaagtccat	ggctggcttc	cccaccagaa	agaccaacaa	tgacattacc	tccattgcta		180
gcaacggtgg	aagagtgcaa	tgcatgcagg	tgtggccacc	agttggcaag	aagnagtttg		240
agactctttc	ctacctgcc	gaccttgatg	atgcacaatt	gg			282

ggatccagaa actctagcca atcctagttg tatgctgtct tcagctggct gaatgatttg 60

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 atcatcagct gaagaaagtt ttgaagagcg ctacaatcat tttcctcatg agtgnccgatg 180
 attgaatttc tttcaagagt tgaatgggtg gaggtcttcc cgtgcaattt ttacacctta 240
 tcgtggctat tgtattgggt gcgtatctta gaacataatc aa 282

<210> 2636
 <211> 252
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700556643H1

<400> 2636

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 caggcatcta atttggcgaa cttttctcta aacgattcga tttggngcaa cagttacatc 180
 tccaagaggc gtgatgaaag gattaatttt gacatcaaag ttgggggtga gatcaactct 240
 ttcaagtcaa ag 252

<210> 2637
 <211> 284
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700556644H1

<400> 2637

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 cggaaactac tcactttggt tggtgtgtct ccattagata gaacattgca aagtacttga 180
 tacagccata cttgactttg ttatcaagca aatttcaaaa gactcctaaa caaacacaga 240
 acaaccaaca gttcaatga ttgttgttca aagcttatgc catt 284

<210> 2638
 <211> 276
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700556645H1

<400> 2638

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 ggtccaaagt tggaagtact gtcaactttg gaccttaaag caccattgag ggatgagacc 120
 catcaacagc cacagcacag ccacaggtgt atgaacagca atatccccag ctgcagcagt 180
 ggctgtggct ggcaggcatt gtcacatcga gtgagttacg tgtgggttgt ggaagaggat 240
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<210> 2639

<211> 278

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556646H1

<400> 2639

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 ctttttgtga agtaaaaaac taccctcgat ccatgcctca aaaggggtga taataagtaa 180
 aaaaaatcaa tgaattcatg ataaaaccct tctgcgtttt tttattataa atttttttgt 240
 caataaaggg atcaaggggt tgggggatca aatggtaa 278

<210> 2640

<211> 293

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556648H1

<400> 2640

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 tgggcttaga accacttcat gtgtcacata gctaacagtg ctagagaatc ttctttttt 180
 gatctttag cttcccaact cactcccaag accaatggat caactcctgt gaggggagag 240
 acagtggcca agttgaagggt ggcaatcaat ggtttcggac gcattggtag aaa 293

<210> 2641
 <211> 281
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700556649H1
 <400> 2641
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 atcgtctcac cagagccgca aggtgttggg acaacttagt ggatncnacc ccagtgtttt 180
 ccaaagcaag gtacactgtt cgttcctttg ggattagaag aaatgagaag attgcatgct 240
 atgtcactgt cagaggtgac aaggcaatgc aacttttggg g 281

<210> 2642
 <211> 286
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700556650H1
 <400> 2642
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 atgnctcaac tcctccgtct ctctctctc gccgcaccaa ctaccgttc tccccttgta 180
 actttcgtgg cccaaacttc cgattgggct caacaagaag aagaacagag cctcgctgaa 240
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<210> 2643
 <211> 285
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700556651H1
 <400> 2643
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atgaggaaga ccgtaacca gaggccctcc tccggaagcc catggtacgg cccagaccgc 180
gtcaagtact tgggcccatt ctctggcgag cccccgtcct acctcactgg cgagttccca 240
ggtgactacg gctgggacac tgctgggctt tcggccgacc cagaa 285

<210> 2644
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<213> Glycine max

<223> Clone ID: 700556652H1

<400> 2644

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ggggaaagag attgtttgtg tgtgagtggg tatggctgga aaaggcgagg gtcctgctat 120
cggaatcgat ttgggaacga cgtactcttg cgtcggcggtg tggcaacacg atcgtgttga 180
aatcatagcc aacgatcagg gtaacagaac taccatcc tacgtggctt tcaccgacac 240
agaacggttg atcggcgatg cggcgaagaa ccaggtcgct atg 283

<210> 2645
<211> 282
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556653H1

<400> 2645

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cttcctacca cgtcctggg cgcgcggagg cctcggctgc tgctgcggtt gcctcttcag 180
cctcatcttc aagctcatcc taaccgtgat catcatcatt ggcacgccc tggtcctttt 240
ctggctcata gtccgtccca acgtggtgaa attccacgtc ac 282

<210> 2646
<211> 272
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556654H1

1. Personal Information	
1.1 Name	1.2 Age
1.3 Gender	1.4 Marital Status
1.5 Education	1.6 Occupation
1.7 Income	1.8 Health Status
1.9 Insurance	1.10 Other Information
2. Financial Information	
2.1 Assets	2.2 Liabilities
2.3 Net Worth	2.4 Cash Flow
2.5 Investment Portfolio	2.6 Tax Status
2.7 Retirement Plans	2.8 Estate Planning
2.9 Charitable Contributions	2.10 Other Financial Goals
3. Social and Personal Goals	
3.1 Career Goals	3.2 Family Goals
3.3 Personal Development	3.4 Social Life
3.5 Health and Wellness	3.6 Other Interests
4. Summary and Recommendations	
4.1 Overall Assessment	4.2 Recommendations
4.3 Action Plan	4.4 Follow-up

<210>	2647
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<212>	nucleic acid
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<223>	Clone ID: 700556655H1

<210>	2648
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958

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<223> Clone ID: 700556657H1

<400> 2649

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 gtgacatcta caaacaccta ctgaatccga ggaaaagaaa aggccttcca ctgacttcat 180
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<223> Clone ID: 700556658H1

<400> 2650

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 cgaggcttcc tacgctccag tccacctccc cagcccaaac ctcttgtagc ttgggtccacc 180
 ggctctgtg actgcttctc cgaatgtgga aactgttgca tgacgtgttg gtgtccatgt 240
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 <211> 216
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 <213> Glycine max

<223> Clone ID: 700556659H1

<400> 2651

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 tgaacagctc tggagctgga gttcagttcc cagttcagcc ttctttggca ccagcttgaa 180

tcaggttatt gcctcanggn tccctaacgt caagat 216

<210> 2652
<211> 280
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556660H1

<400> 2652

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ttggacattg agctgtggcc gaagaggctc cgaaggccgc gaggaacttc gttcagctct 180
gcctcgaaaa ctattacgac aacaccatct tccaccgat catcaaggac ttctcgtcc 240
aaagcggcga cccaccggc accggcaccg gtggtgaaag 280

<210> 2653
<211> 281
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556661H1

<400> 2653

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agggttgtgg atcactacga caaccccgga acgttggatc gttagacaag aacgaccgga 180
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<210> 2654
<211> 285
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556662H1

<400> 2654

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 cttccgagat gccctttggt cacaaccgtt ggtttcgcag gttgtcgggt tttccacgtt 180
 tgcaactatg tcaagggctg agaaagggtt totccaaaaa catggcttgc agtgtcagtg 240
 tggataatgt gatacggttc atccagcaac agatgcttat gctgg 285

<210> 2655
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700556663H1
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 ggcaatgggt tctccgctt cttcccctcc cagtcacaat atgcagacag cgttgaatct 180
 gaagcaggag ctgatactat tgactataaa tctttaaccg atgaagagtg gaagaagcgg 240
 ctcacaaatg aacagttcta tattactcgt cagaaggga ctgaaaga 288

<210> 2656
 <211> 283
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700556664H1
 <400> 2656

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 accagtgttg gagggatcgt gaccaaggct taggcttcat aggcagtgc gtcgatgcac 180
 ttacttttgc agccaccaa atctccatcc agttgattag tgctaccaag gctgatgggt 240
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<210> 2657
 <211> 253
 <212> nucleic acid
 <213> Glycine max

<210> 2660
 <211> 280
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700556668H1

 <400> 2660

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 ctaaccacaa atctctgggc ggagaactat ctaagcttgc agctaatagcc ttcttggccc 180
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 aacaggtgtc ctattctgtt ggaacagact caaggattgg 280

<210> 2661
 <211> 276
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700556669H1

 <400> 2661

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 gcttttacta ccttcaatgc ttttgaaga aatgcttgca catgcaaatg gatattgttt 180
 cagttgttcc tccatggcaa ttaattccag ctgaaggaaa aattgaggaa tgttcattgg 240
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<210> 2662
 <211> 269
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700556670H1

 <400> 2662

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aggaacggaa cagaaaagtt gagtacgaac agcatcgcaa catgtacaac gccaaacttcg 240
agaaccagac ccggggccatg aacacctaca aggcccattc ga 282

<210> 2671
<211> 282
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556679H1

<400> 2671

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ccggccatcc agcgccttca attctccctt ctggactaca aattctgggtg ctctatttg 120
gaacaacaac tcctctttta ccgtggagct agagggtcaa ttctgctgga ggattatcat 180
cttgtggaga agcttgcaaa ttttgatagg gaacgtatcc cagaacgtgt tgtccatgcc 240
agggcgctag tgcaaagggt ttctttgang gtcacccatg ac 282

<210> 2672
<211> 284
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556680H1

<400> 2672

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ggaacaacaa ctctctttta accgtggagc tagagggtcaa attctgctgg aggattatca 180
tcttgtggag aagcttgcaa attttgatag ggaagtatcc cagaacgtgt tgtccatgcc 240
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<210> 2673
<211> 283
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556681H1

<400> 2673

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ggatgaaggga caaaccttct gcaaccttct gcatcagttg tgagatgcaa cccaccacc 180
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acagtggctt caccaggag ggtattttg gccatggatg agt 283

<210> 2674
<211> 278
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556683H1

<400> 2674

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gcttcttct cggttcttaa gagggaaaga gtggtgtgtc tctcaaggac tccacctgt 180
tcggtcttct attttcagaa cctatcaaag ctaacttcag ctcttctgca ttgaggtgca 240
agaggggaatt cgaacaaaag ctctgtgtgtg tgagggcc 278

<210> 2675
<211> 271
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556684H1

<400> 2675

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gcattcagcc actcctcaat tccatcatgg atcctaacca tttccaacac caatccaaac 180
caatccantt cgantcctcc ccgaccaaga gagctcgccg tganctctc gttctcgaag 240
acagccacct caaccccgcc tcggcccg a 271

<210> 2676
<211> 279

<212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700556685H1

 <400> 2676

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 tcagactgct cttcttgatt ggctttcccg gatagttttg gaagattgca tgacagggga 180
 aaggaggccc caaagccaaa caaaccttg aactaagctt ttcccaaata aagtgacaat 240
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<210> 2677
 <211> 277
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700556686H1

 <400> 2677

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 aagaatctct tcaactctca tgcaacaacg ttggctntgt ctcttatnc tctctcttg 120
 ttagcctctg tctcccaaaa atgcacacc tnccttcttt ctctcatca cactctccac 180
 atcttccaaa ccacaacata nnacanatcc aataataaac tctctcatc catcaatgga 240
 ctttcatcat gcncttcttc tcctttgctc cccagt 277

<210> 2678
 <211> 277
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700556687H1

 <400> 2678

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 tttcttgat gtgatagtg ttagtgccc aataagttgt taattagttc aaaaatctaa 180
 tcacgcgaat tttagatgct atattatgta ttcagcttga tctaatacta ataccctatg 240

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<210> 2679

<211> 277

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556688H1

<400> 2679

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ggaacccgct gcagctaaat catttgcctc ottaagcccg atctcaaaga ttttgcctaa 180

aaatgtgtcg acgccaccaa aattgcagga ttgcgccttg ccacctcagc tctcgttggt 240

tctggagcga gtgcagaagg tgttccaaag aggctaa 277

<210> 2680

<211> 275

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556689H1

<400> 2680

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tcaatttgct ttatctttcc gaggtaatct cttttacttt ctttctgaac tcaaataaat 120

ttctaataaa taccocatcc tctcatatct ctatgtatct gttttccctt tctttgcatt 180

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<210> 2681

<211> 273

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556690H1

<400> 2681

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caagacgcgg aacgaccttc tctcgcggtt catgggatca atagacgacg acgtttatatt 120
aagagacatt gtggtgagtt tctattagcg ggtcgtgaca ccatcgctgc cgggttaacg 180
ggctttttta tgttgttatc gaaaagcccg gaggtggagg agttgattag ggaggaggtg 240
ggccgggtga tgggcccggg ccaggagttt cct 273

<210> 2682
<211> 274
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700556691H1
<400> 2682

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ctttgattct gaattggatg caattgggtg cctcactctg ctttgetcca ttgctgccac 180
tctatccggt catgagaata gcagaacttt tgacctgacc agtgaactgc cagggcaaac 240
gacaagggtg agtactcagg acatgggttg ctct 274

<210> 2683
<211> 276
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700556692H1
<400> 2683

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tgaggaagggt attgacgaat ttgcaatatt attcatgata atggaggcca agtatatatg 180
gatggtgcca acatgaatgc tcagggtggga ctcaacaagcc cgggttggat aggagcagat 240
gtttgccatc tcaatctcca caagacattt tgcac 276

<210> 2684
<211> 276
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556693H1

<400> 2684

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gatctgattt gggtcataaa gagtagtaca cgtttcattg ctcgaaatag agttgaaaaa 180
tctggagttt ccatgtctga gaaaccatct tcatcggtga catctaccgt agctgcncga 240
gaagttgatc cctggtgcag gtttgaatga aaaaaa 276

<210> 2685

<211> 280

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556694H1

<400> 2685

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acctctcgcc tttaacaaat cctagctctc ccttcagcac agaggccaac ttcgctgagg 180
ctgaaatgca agatggagag cnanggtac attctgcngg gnaacactcg cacggngacg 240
acgctgatgg gactcgccgt gttgctgntg aagnaggcgg 280

<210> 2686

<211> 284

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556695H1

<400> 2686

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tacaattttg gtagcatggc aatgccatgc gtacgatatg ttccctctcc gaatgaacac 120
tgncctatgg tgcccgtact ccgaggtgaa atgcgcaagt tggaggcttg ctgtggaagc 180
acacaacatc tttggctttg agaccattcc tgaagagtgc gttgaagcaa caaaggaata 240
catccatggc gaacaatata gatcagactc caaaacagtt aacc 284

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<210>      2687
<211>      288
<212>      nucleic acid
<213>      Glycine max

<223>      Clone ID: 700556696H1

<400>      2687

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ggccttagct gcaactaaaa gtagagagca attccattgc cgttgcttgt tattagttca  180
ttttcacaaa atggaagaga gcaccaagag gaaatacact aatctgatcc atgaactaat  240
ccaaggaaag gaactaacia agcagctcag tgaccatctg gtttcac   288

<210>      2688
<211>      295
<212>      nucleic acid
<213>      Glycine max

<223>      Clone ID: 700556701H1

<400>      2688

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tgaggtcact tgggtcaaac ccaactgagg cagaactgca ggatatgata aacgagggtg  180
atgctgatgg caacggaacc atcgatttcc cagagttcct caacctgatg gctcgcaaga  240
tgaaagacac cgactcagag gaggagctta aggaggcttt ccgtgtgttt gacaa   295

<210>      2689
<211>      291
<212>      nucleic acid
<213>      Glycine max

<223>      Clone ID: 700556702H1

<400>      2689

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tcaatggcga aattcgtngt ggagaagaac agcttgacgg tgacgtcgcc ggacaacatc 180
aagggcacgc acganagcnc gattgggaac ttcgggatac cccaatacgg aggcagcatg 240
gctgagaacg tgttgtagcc aaaggncaac aaaaagggnt gcnaggagtt c 291

<210> 2690
<211> 288
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556703H1

<400> 2690

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cctctccgaa tgaaaactgg ctatggtgag cggtcttcgg aggtaaaatg cgcnagtttn 180
aggcttgctg tggaagcaca caacatccga gcctttaaaa ccattcctga agagtgcgnt 240
gaaccaacaa aggactacat taatggcgaa caatttagat cagactct 288

<210> 2691
<211> 263
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556704H1

<400> 2691

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ncatcttcga cgaccacgcc gccggctgcy ccgttgacgt tcccgcagac tctggcgng 120
ctccgggcygc ggctggcgga ngagtccgcy tcgctgtagg acttcctcgc gttaaaatcg 180
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atgaaggagg ccgttcccg cyg 263

<210> 2692
<211> 276
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556705H1

<400> 2692

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acgctcccgcc agcataaact ataaatgttt ggttaccttg natactatcc aacttgtagt 120
gaccgacata ttagaatgtc tgcttctatt ctttaattttt agtttgccgc caattgaaag 180
cgattaagct acaaaattat gtgcgaggtg actttatgtt gatgtgtagg catgcactat 240
caattattta gcagctaggt ttgttatcca gagtga 276

<210> 2693

<211> 285

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556706H1

<400> 2693

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tcgatgcttg ctctctctgc ctcaaattccc taattgatcc tatgagctgc cagaaaggcc 180
atctctnttg caaagagtgc attcntcagt gcctcttctg tcagaagaaa gacattcaaa 240
ggaagcttgc agnccatgct gctcagcaga agcaagaaaa agagg 285

<210> 2694

<211> 284

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556707H1

<400> 2694

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aacaacaact cctctttaac cgttggagct agaggtccaa ttctgctgga ggattatcat 180
cttggtggaga ngcttgcnaa ttttgatagg gaacgtatcc cagnacgtgt ngccatgcc 240
aggggcgcta gtgcaaaggg tttctntgag gtcacccatg acat 284

<210> 2695
 <211> 284
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700556708H1

<400> 2695

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 attcgtcaag gagaaccgag cctatgcctc cttgctttcc accttggaaca cccgtncaat 180
 caccaagcat gttacacggg ttgctgatgc caaagacgat gcattggaga aactttatga 240
 gaaacgcatg caaaagaatg ctctcaagan agaaaaagaa gaaa 284

<210> 2696
 <211> 254
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700556710H1

<400> 2696

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 ccactcattc tccttctatt agtgtgggac agaatagtaa acgaaagaag agctannnnn 180
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<210> 2697
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 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700556711H1

<400> 2697

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 atgggttttg ttgcttagtg tttttttgga cgcacgaaag atgattcctn anngtggcct 180

cagttgctgt ttgagtgtg ctgcncnnta ccttctcggc agaagcagtg gcagggatgc 240
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<210> 2698
 <211> 282
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700556712H1

<400> 2698

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 ctctcatcc ttctctctat caatttctcc ttcctttttg tcatacnant cttcaagttc 180
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<210> 2699
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 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700556714H1

<400> 2699

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<210> 2700
 <211> 283
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700556715H1

<400> 2700

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 tgccttagtg aagctaattct aagagaggtt ttgcaattct gctatcaaga aaatttagcc 180
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<210> 2701
 <211> 236
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700556716H1

<400> 2701

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 gtgnagtcta cttttatata aatcatcnaa cactaattaa catgngcagg nctcaaagta 180
 atagttttct acaaaaaaat tgaagtttgg ggggggatct acatctctat gggatt 236

<210> 2702
 <211> 291
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700556717H1

<400> 2702

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 gcaggcccgg ttggggtttg gcaagaagaa agccgccgcc ccgaagaaag tttccagggg 180
 gtcgggctct agctccgata gncctctgtg gtatccgggc gccaaaggcg ccgagtagct 240
 ggatnggagc cttgtcggag actacggatt cgaccattt gggctaagga a 291

<210> 2703
 <211> 287
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700556718H1

<400> 2703

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 ttgaagagat tttatgaaat ttattaattt tgcattggca ttctgaggta atccttttag 240
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<210> 2704

<211> 287

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556719H1

<400> 2704

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 aggaggacta cggtcatttc ctaaacaact cctcccctgc gtcccctcct ttcttgctcc 180
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<210> 2705

<211> 276

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556720H1

<400> 2705

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 ngcctatggc aactcgccaa actccacggc cctctcatgt cgtttcgctt cggcgccgtg 180
 caaacgctcg tggtttcatc ggccagaatc gccgaacaaa tcttgaaaac ccacgacctc 240
 aacttcgctt ccaggcctct cttcgtgggc ccgaga 276

<210> 2706
 <211> 274
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700556721H1

 <400> 2706

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 ttcgtactca cattggatca ctctaacttt cactgacctg tcagcaagca cgatttcac 180
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<210> 2707
 <211> 280
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700556722H1

 <400> 2707

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 <223> Clone ID: 700556723H1

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gaactccctt taaccctttt cccctctttt cttccttctt ttaattatnt ntttaaaaat 180
 attttggttta tgggttttta atttgtaaaa tcggacacga tcgctgttcg ataantcga 240
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 <223> Clone ID: 700556724H1
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 tgcagaggat cggctctggtt aaaactgtac aagagaatac aggatctcca tacttttaggg 180
 tggcaaagct aataggagac aagagagctg ttgtagcaga aagaggattc aaccgccctt 240
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 <213> Glycine max
 <223> Clone ID: 700556725H1
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 ttgccttgtc ctaagctcct ccttggtcga ggtgtcaatg gccggttctg ctttctgctc 180
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 cg 242

<210> 2711
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 <213> Glycine max
 <223> Clone ID: 700556726H1

<400> 2711
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aaangnccat caattgctnc tgtagttgcc actnttaatt ggctgcngc aaatcgctaa 180
gcagcacgng tatnngcncn angtnttcgn gtnagaaaa nntgacnttc gggagaattg 240
ctatgacnnt nattcgtatt acgatnggct gaacaca 277

<210> 2712
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<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700556728H1

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gatggttcaa atgaatatgc tgattatcaa ccgggttctc taaacaccac agaccaactc 180
gtcaaggatt tagaaaatta tgacattgtt ttccacatag gagacatgcc ttatgcaaatt 240
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<211> 278
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700556729H1

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ttcgtgggtg aagccaaggg caaaaaggga atgatgtctc gtcaatttca gcgcaatgct 240
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<210> 2714
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 <213> Glycine max

 <223> Clone ID: 700556730H1

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 ggggtgcaggc ccggttcggg tttggcaaga agaaagccgc cgccccgaag aaagttttcca 180
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<210> 2715
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 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700556731H1

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 tgggctgtct tcagcttcca actcttcttg cagggtatcc tctacccttt cagattggag 180
 ttcccctacc gggaaactgg attggggtgt aaacggagac aagctgaaca agctgaggaa 240
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<210> 2716
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 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700556732H1

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gcttnttggg gatatgaag ataacgacaa tgcanggnag gacgagattg ctgcactcgg 240
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<210> 2717
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<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556733H1

<400> 2717

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tngggaatng ccagnttcag tgntactcct aggcagcaga tttnggggttc ttctgaccca 180
anatncannt tncccaantg gnctgttgaa tttttatnng ggtnttanat tcntgcnng 240
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<210> 2718
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<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556734H1

<400> 2718

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tcacaagagt ncttacattg tanacgtggc ganancgnan atgcncgaga gcttngagna 180
nnacgcatgt ggtgagtcgt cantgannag cgtgtctana ntcngcgnag atgatttaca 240
cctacgacaa gncatccacg gctacgngac gagattnaac gctgagg 287

<210> 2719
<211> 286
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556735H1

<400> 2719

<223> Clone ID: 700556740H1

<400> 2722

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agaactagag ggtgcagaaa atgagagtgg aaaatgccca aaggaaattt tggtagtag 180
tgacagtgat ggaagatagg aggaacctgt gaggtcgccg gtgatgagga cgagggaagg 240
gttgataacg gaaagagcgg ggcccacaag attggcga 278

<210> 2723

<211> 271

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556741H1

<400> 2723

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ctcgatcacc ccgcagatcc ttaagccaga tcttatcgcg ccaggtgtca acatcctagc 180
cgggtgttcc aaggcgttgg gaccaccggt gttaattngt tgataacagg cgcgtggatt 240
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<210> 2724

<211> 277

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556742H1

<400> 2724

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agcgtgttcg gagctcaatg ggaaggtcac ttccgtggcc tatgttgcatt gctctggcta 180
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aaggagaggt gcccttggtc tcttggcagc taccctt 277

<210> 2725
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 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700556744H1

 <400> 2725

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 aaagtggtaa tgagcatgga ggcaggcatt ggagtgatgg gcaccaagtt gggatatgatg 180
 agctatttcg aatccgacgg agaggttggt cctgtcactg tcgtgggttt caaagaagggc 240
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<210> 2726
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 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700556745H1

 <400> 2726

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 taaaaacctc gacgcctttc ctgcgcccga ggatcacttg ttgcagaaaa cccaatctgg 180
 ggctctcgta tccgtaattg gtc 203

<210> 2727
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 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700556746H1

 <400> 2727

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 tggaacctgc tgcagctaaa ctcaattgct cccttcagcc tgatctcaaa gaatttgctc 180

aaaaatgtgt cgacgctacc aaaattgcag gattcgccct tgccacctct gctctcgttg 240
 tttctggagc aagtgcagaa ggtgttccaa aaaggcta 278

<210> 2728
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 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700556747H1

<400> 2728

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 taagtttcgc ctttgggatt ctaggtaaca ttgcctcctt cgtgtgcttt ctggcaccac 180
 taccaacatt ttatagagtt tgtaagaaga aatcaaccga aggttccaat caattccata 240
 tgtggtgca ctcttcagtg caatgcttgg atctttt 277

<210> 2729
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<223> Clone ID: 700556748H1

<400> 2729

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 <213> Glycine max

<223> Clone ID: 700556750H1

<400> 2730

<212> nucleic acid
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<223> Clone ID: 700556753H1

<400> 2733

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tctaagatgt ctctatatcc cagcaaggag aagtatttat ccaaacctan aaatgagctg 180
gacctttcta actgcgacca gtgcactcct agttaccgtc tcttaccgaa aaattaccca 240
atacctgtag ctagccagaa aacagaactt ggtgctg 277

<210> 2734
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<223> Clone ID: 700556754H1

<400> 2734

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ttggccaaac actcccatc ccaactgcact gcgagagctt ctaaagcctc tccctgcang 180
tggtgaaatc gatgaactcc ctaagcaa atgatgataca cagtacccaa aaacattctt 240
ctataaagaa gaccttcac caggcaaaac aatgaaa 277

<210> 2735
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<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556756H1

<400> 2735

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cgagctgcat tactctccct cggttcctcc gtgggaggcc gtaccctctt ctggaacgcc 180
accagggaaa gccctgcaa ctgggcccggg gtccaatgcg agcacggcca cgctgctcag 240

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276

<210> 2736

<211> 275

<212> nucleic acid

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<223> Clone ID: 700556757H1

<400> 2736

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caatgccatc caaaagggtc tttctacgtc tccgcacga gcaccaagaa aatcctaata 180

atgggaggca ccaggtnnnn natgtgtttt tgtctaggct ccttgtcaaa gagggtcacc 240

aggtgacttt attcacaaga ggtaaagcgc ctgtc 275

<210> 2737

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<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556758H1

<400> 2737

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tacagttttc agaatattaa agttcctcta ctccctgtgc atttttgtga ttgtgaggag 180

cattgtagtc cttttgtccc ngaaagagaa aaactatcta ttgatagggc agctgatagt 240

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<210> 2738

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 tgcaactatg tcaagggctg agaaaggggt tctccaaaaa catggcttgc agtgtcagtg 240
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 <223> Clone ID: 700556761H1
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<210> 2741
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 <212> nucleic acid
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<223> Clone ID: 700556763H1

<400> 2741

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<210> 2742

<211> 282

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556765H1

<400> 2742

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 ggttggttga ggaaatattg nccaagacc aatgatgtac gtggctctaa catatgacca 240
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<210> 2743

<211> 281

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556766H1

<400> 2743

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<210> 2744
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 <212> nucleic acid
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 <223> Clone ID: 700556767H1

 <400> 2744

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 <223> Clone ID: 700556768H1

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 <223> Clone ID: 700556769H1

 <400> 2746

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 ttggttggtt tgtgacaaat gatccatctg gcacttttag agaaccaaag gtagtcgagc 240
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 <223> Clone ID: 700556770H1
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 <213> Glycine max
 <223> Clone ID: 700556771H1
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<210> 2749
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 <212> nucleic acid
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 <223> Clone ID: 700556772H1

<400> 2749

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<210> 2750

<211> 274

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556773H1

<400> 2750

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<210> 2751

<211> 272

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556774H1

<400> 2751

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 agacttgagg tgacagaatt ctctgggctt agatccactt catgtgtcac atatgctaac 180
 agtgctagag aatcttcctt ttttgatctt gtagcttccc aactcactcc caagaccaat 240
 ggatcaactc ctgtgagggg agagacagtg gc 272

<210> 2752
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 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700556775H1

<400> 2752

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 aaaagggaaa tggagttggg gaattggaat ctgtttcgga tagtagctca ccttcaaggt 180
 atgagaatgg tccattagag aataggtata gaggtatata tgacagtga cattgggtga 240
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<210> 2753
 <211> 269
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700556776H1

<400> 2753

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 caccagaaat tacacaataa tactagtcct gatgatgttg taatctgtca ggcactaatt 180
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 ataacaaaag aacgacttct gagctatga 269

<210> 2754
 <211> 263
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700556778H1

<400> 2754

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 agaatttgat tgccctgtcc cctgtgatgc tgttcatgaa gggtagccca gatgcaccaa 180

gatgtggttt tagttccaga gttgctgatg cccttcgaca agagggcttg aattttgggt 240
ccttgatata ttgactgatg agg 263

<210> 2755
<211> 273
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556779H1

<400> 2755

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atcacacaaa gaagcagcaa gcaatgagga acagtttctt gagcaataag cacaacagtg 120
tgagagtgat gaagggttgg agaggaagac atggtaacac taacaacaca tccaaaaggg 180
taggaattgt gcagtgtaga gggttagggg acttcatagg tggagacttg ataaagtgtg 240
atcttggacg ttggctttca gatgttgaag agc 273

<210> 2756
<211> 278
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556780H1

<400> 2756

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agaggaacag atagcagaca tgttaaaagt ttttgaccga aatgggtgacc aaattataac 180
caaggaagag tttgtcactg gcttaacaga atacattaac caatcatagc atgctctgga 240
tagacaatac ctccccaaag aatctctcaa caaatgt 278

<210> 2757
<211> 279
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556781H1

<400> 2757

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 ccaaaacctt ggcgaaccca tccatgacgc ttggtcagg aggatccagt gtcgttggtc 180
 ctaggaactt cagattgctg gaggagcttg aacgtggtga aaaaggaatt ggagatggca 240
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<210> 2758
 <211> 280
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700556782H1

<400> 2758

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 tcctctncag ctccctggc ctccacatct cattctccan aatacncaat ntcntagatc 180
 cgtcangttt ttctctacta cttctcttcg taantttaat ncacgcgcca cccatcncaa 240
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<210> 2759
 <211> 276
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700556783H1

<400> 2759

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 tagtgaaaaa gttgttagct aaaagaagac caagtttttg gtgttgtaga aggaagagaa 180
 gaattaacat gaaaattcag tgtgacgtgt gtgagagagc tccagcaaca gtgatttggt 240
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<210> 2760
 <211> 274

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556784H1

<400> 2760

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 atctgaatct gtaaacgagg gtcaccccgga caagctgtgc gaccagatct ctgatgcagt 180
 gctcgatgcy tgccttgaac aggaccctga cagcaagggt gcctgtgaga catgcaccaa 240
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<210> 2761

<211> 273

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556785H1

<400> 2761

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 atggcaaagt gcccacgcca ccttctacgg nngctccgat gcttccggca ccatnggggg 180
 ngcgtgtggg tatggaaacc tgtacagcca nggttatggt gtgnacacgg cggcattgag 240
 cacggcgctc ttcaacagcg ggcttagctg cgg 273

<210> 2762

<211> 274

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556786H1

<400> 2762

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 cgagagtaca ccatcaacct ccacaaacgc ttgcatggct gcacatttaa gaagaaggct 180
 cctanagcaa ttaaggagat aaggnaagttt gctcnnnaag cgatggggac gaatgatgtn 240

agagtngatg tgaagctcaa caaggctntg tggg

274

<210> 2763
<211> 273
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556787H1

<400> 2763

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cctcnnnnnn nnnnnnnnng cttccccacc agctctctgc cgaagacatg gctctgcgcc 120
gccgccaccc caacggtggc tccgtcaacc accacctcct cctcggaggt ggaggttcc 180
aggttggagc ctagagtgga ggagagagat gggttctggg ttttaaagga agagtacagg 240
ggaggcatca gccctcagga gaaagtgaag ctt 273

<210> 2764
<211> 272
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556788H1

<400> 2764

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aaccoggttc gacggttcag aggagactat ggggtgaagga ccggtcgaag gactggtggg 180
agaagatcag ccggaaggac ttcccggagg aggagttccg gcggtgggtc cggatgagca 240
gaagcacggt cgacatgatc tgcgacgagc tc 272

<210> 2765
<211> 258
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556791H1

<400> 2765

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cgagaagaaa tccaccgcca aactccaaga ctccaggtcg gtgaggaaga tagtgaatct 120
 ggacgaccac attgcgctgg cctgcgctgg gctgaaggcc gacgcacgcg tgctcataaa 180
 cagggcacgt gtggagtgcc agagtcacag gctcaccgtg gaggatcccg tcacggttga 240
 gtacataacg cggtacat 258

<210> 2766
 <211> 269
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700556792H1
 <400> 2766

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 cgcggcgagt gtggcggtgg atgctcagga gaactcggac gtgaanacgc tgggtgaagta 120
 caagcacggg aagaagtact gcgacaaagg atgggaatgt aagggtggt caatttactg 180
 ttgtaacctc accattaccg attatttcca gacctaccag ttcgagaatc tgttctccaa 240
 gcggaactcg ccggtggcgc acgcggtcg 269

<210> 2767
 <211> 273
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700556795H1
 <400> 2767

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 cacaaaagtg attcatgatt gcaaacggga cagtgaggca ttatactttc agtttggcat 180
 caagttgaac aacgtagtgg ataccagat tgcttattca cttatagagg agcaagaagg 240
 acgaaagaga ttgcgagatg actacatttc att 273

<210> 2768
 <211> 267
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700556796H1

<400> 2768

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atgtctgcct cagtgttcct tttctccgca gagacccaaa catcagaacg gtagatggca 120
tgcgtgcttt gtatggagac gactactatg totgcagatt tcagaaacca ggcgaaatgg 180
aagctcagat ggctgaagtt ggcactgggt atgttntctca aaaacatcct tacaagtcgc 240
aaaactggtc ctccattcct tccgcat 267

<210> 2769

<211> 310

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556801H1

<400> 2769

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cgaacaccgc tcagttccac ccatcgcttc ttctctgcca tccccaaagc aaacgcggcg 180
tttcagggac ccatttgtgc ctcgcttctc gcgccaaagc caaaccacc ccgtcttcgg 240
tggaacaaga gagcgacgac aatttttagaa aaagagtgtt caaatgcgtg tgggtgcaga 300
aggtgttaat 310

<210> 2770

<211> 302

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556802H1

<400> 2770

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cctccgactc tcaactccgtc ctcgctcttc caagaacttc gcatacaggc ggctgggagt 180
acctatggaa atcacttttcg tggtacaaca tatggggaat cacatggagg aggtgttggt 240

tgtgttattg atggagtctc ctgccttct tctctctgaa gctgatatgc aagtgganct 300
tc 302

<210> 2771
<211> 306
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556803H1

<400> 2771

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tttctaggaa tttggcttgc aaattcatat acccttttct ttttccaata aggtttcaaa 180
ggatttggtc cccaagcagt tggagaacat gatgtctctg gtctctctc gtactggcag 240
gcattgcagc gtatgacaaa ggctgtcgcc aagttgtggg atgcattctt acagatacna 300
gancat 306

<210> 2772
<211> 305
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556807H1

<400> 2772

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cctggcaatg cttttgttga aggtgatgct tcaagtgcc tttttacta gctgggtgcag 180
caattactgg tgggactatc actgttaatg gctgtggcac aagcagttta cagggagatg 240
taaaatttgc tgaagttctt gaaaagatgg gagctaaggt tacatggtca gagaacagtg 300
tcact 305

<210> 2773
<211> 288
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556808H1

<400> 2773

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 tgattgcggg ttatgtttga tgatgtgttc agtgatcatc aatatgagaa tgttgctgt 180
 ttgctcagcc accccacgtt attccacatc ttcccagatt nccttgtttg ggggattgca 240
 cccattcga aaggatcttg agagcagatg tgtggctgaa gaaggtgt 288

<210> 2774

<211> 308

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556809H1

<400> 2774

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 nnnnnnnnnn nnnncaacct taatcatgga gaatattgga gagagtacaa gcattactgg 180
 gagaccaaca tgttcctcca aaccaagaa cttgacagtt gggggttgga tgaggcctta 240
 tctgggtact acgattcgag ttccccggac ggcgctgctt cgtctgcggc atctaagaac 300
 attgtttc 308

<210> 2775

<211> 306

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556810H1

<400> 2775

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 gacatcgct ccatcacccc ttttctcttc ctcacagtca cagcagtggg agcttcccaa 120
 aaaagagtgc caatggcatc ttcttcagac tcatgggtga ggaatataat gaagcactga 180
 aacttgctga tgatatcagt ggcatgattt ctgagcagag ttcatttcct gcattctggac 240

cagaaaccca gcatcattca tctgctataa ggagaaagat tacaatattg gggaccaggc 300
ttgata 306

<210> 2776
<211> 303
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556811H1

<400> 2776

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aaccatggct gaagaagatt cagcaagcaa gacccctcat tccgtgggta acaaggctgc 180
ctctctatct tccccctga cagcaccag cgctggcggt cggtttcggc tggacaattt 240
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caa 303

<210> 2777
<211> 302
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556814H1

<400> 2777

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ggttcccaaa cgttaganag aaggagaagg gattgaanct ccattccaag gtcttacnag 180
tntatgcac tttctccatt cacaggaaat cgtttgtaaa tcccaatggg gacgatgtgc 240
agaattaaat tgcgaaccac atatcaaaat ttcatgacaa tccaatgggt aacgagttcg 300
gg 302

<210> 2778
<211> 304
<212> nucleic acid
<213> Glycine max

ttattgctc aagggtcccc aacagcaagg tttccggtgg aagcttcaag attgttgctg 240
tagaagagaa gaaagagatt gaagagacnc agcagaccga caaggacaga tggaanggtc 300
ttgcctatgg t 311

<210> 2781
<211> 207
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556818H1

<400> 2781

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tgatgagtca ttgtttgagg ctggtgctgc tcgagagatt gttaatagga ttcagaagtt 120
acggaanaaa gttgctcttg aaccaactga catggtgggg tttactttga atcattagat 180
gatgacaaat cggctctctca tagagtc 207

<210> 2782
<211> 227
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556819H1

<400> 2782

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tcgtctccgt ccctgcaagt gttcctccac cgccccctg tccaccacca cctacgagtt 180
ttctgatggg tcttcggagg tggagttaag attaaacata ggaggtt 227

<210> 2783
<211> 303
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556820H1

<400> 2783

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 gag 303

<210> 2784
 <211> 305
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700556821H1
 <400> 2784

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 cagcctcggg gctcgcattc ctccccaacc caaaacggac caggtgattt tgatgacaag 180
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 ataac 305

<210> 2785
 <211> 303
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700556823H1
 <400> 2785

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 tggttgagtt ctcaatttct tgtggcagtt ttgttgaacc catcaatcct ttctttctat 240
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 tgg 303

<210> 2786
 <211> 304
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700556824H1
 <400> 2786
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 actggctatg gtgagcgttc ttcggaggta aaatgcgcag ttttaggctt gctgtggaag 180
 cacacaacat ccgagccttt aaaaccnttc ctgaagagtg cgttgaacca acaaaggact 240
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 atgc 304

<210> 2787
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 <223> Clone ID: 700556825H1
 <400> 2787
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 nnacgcaaag gcgttgnggt tcntcnaaga aatgactcgc aacgccgacg ccgtccagga 240
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 actcg 305

<210> 2788
 <211> 301
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700556826H1
 <400> 2788

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 aacagtccat caattgctgc tgtagtggcc actgttattg gcttgcgtgca aatcgctatg 180
 cagcacgtgt ttgtgctcaa ggtcatcggg ttgagaaaat tttgaatttt gggagaattt 240
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 t 301

<210> 2789
 <211> 282
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700556827H1
 <400> 2789

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 gtgtacatag gggtatatat tgatgcactg tatttgtatt caaattccaa ttccaaatgg 180
 cgaacatatt tgattgctgt tagtttccca gggtatgtag actatgtgac aatgcagcat 240
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<210> 2790
 <211> 301
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700556828H1
 <400> 2790

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 cgccaggggtc tccgccatgg ccaaggagtt gcacttcaac aaagacggca ccgcaattag 240
 gaagctccag agcgggtgtga acaagctcgc ggatctgggt ggggtcacgc ttggtcccaa 300
 g 301

6644276.6.666660

<210> 2791
<211> 299
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556829H1

<400> 2791

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tcagtttgat ottatgtcaa tgaaggattt ttagaaaaac ccagattcac aggaaaaacc 180
cttaaagcgg agaataaaag gcaacgactt ttcattctta cgcaagtgat tatggcgggt 240
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<223> Clone ID: 700556830H1

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ggaagtgaga caacagcatc tcctcttggc cagctactaa atggactctc aagactttga 180
tcttgatgat ctttgttcta tgggcagctt tcatcttttt tctccctgca aagcctgtga 240
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<223> Clone ID: 700556831H1

<400> 2793

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atgcacaaaa gtactttggc aagtctaccg catacattga atcactgaag gccatccgtg 120

gacagaaaag tagcaaaaag aatatttcaa gagataaatg ttaagagaag ctcaagtagt 180
 ggctcttgt tcctacgaaa ataacacaaa ttggggcaca gaggtgggat tctcatatgg 240
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<210> 2794
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 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700556832H1

<400> 2794

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 cctgcaacag aatggagata tatgttggtg ctcttccaag caccgcgttg tcaaagaagt 180
 cactgaatgg atgtccaaaa caagtgggat cccggttgca gacctttgcc agcatcagtt 240
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<210> 2795
 <211> 295
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700556833H1

<400> 2795

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 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700556834H1

<400> 2796

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actacgaagg ggtaaagaag tgcttaacgt agccaaacca ttattccaac ccttaagcgt 180

cctggatttt tagctcaacc tgtctccaga gtgcaaataa gcaccatgac tgtaaggaa 240

aatctgatgg tggcagtggg ttcaggggtga gctatatgta agaattgaac ntccggagtt 300

c 301

<210> 2797

<211> 293

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556836H1

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tgtctcaagt ggtaaattta ctgggaaatg aggactcagc tgcaaattac ttgagcaagt 120

gcatatactc aattgggttg ggtagcatga ttacctcaac aactacttca tgcctcaatt 180

ctattccagc aaccaggcag tactcaacng atgagtatgc tgatgttctt nttcaagcat 240

atactganca actaaaaact tggtatatta tggagccagg aaaatgggtgc ntt 293

<210> 2798

<211> 302

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556837H1

<400> 2798

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taataaatgg agtgctgcac ccaaaacggg cttcatgaca tcacaatttc taaagatttc 180

tatcgaatat acagtgggtct ccaaattgga tacttggaag aatctgcca agtgccatca 240

aatagtcatg aaaggctggg agattcaatt gcttgggggg gctgcactat aatttatttg 300

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302

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<211> 169
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556838H1

<400> 2799

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cattancatc tgtntctang cttcctcagc tttnncatac tacntctgnt ttgagtaatg 120
gaatganagg ngcncctagc nccattnnntn ctangancca gttnttgac 169

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<213> Glycine max

<223> Clone ID: 700556839H1

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tcagtgtagt ggaagaatca ctcccttata natttccac cacaccatan gngcaaccaa 180
cgctctctct tcagcctcca ttctacgctc tcccaaccgc cagtctctga cccgaagagc 240
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cgcc 304

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<211> 151
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556840H1

<400> 2801

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<400> 2804
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 ggagcgaccc ggagttacat ggccgaagca gttgatgctc cacttgaggt cgtggatcct 180
 gagattgctg atatTTTTga gcttgagaaa gctaggcaat ggaaggggct agaattgata 240
 ccgtcagaga atttcacctc tgtgtctgtg atgcaagcgg ttggatcggg tatgaccaa 299

<210> 2805
 <211> 296
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700556844H1

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 gcgtcaatga ttgagtgggg gggagagggt gtgactctga gtccgacggc caacacacct 180
 cgactcaaat ggggagtggc catttccctg aggaggggtt tggcaaggct agttacttca 240
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<210> 2806
 <211> 297
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700556845H1

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 aaagcattgc aaaggganaa ggagattggt attaaattca aggactagtg atcgtggtag 180
 aaagcaaaag gagcgaaact ctggattttc cagtgaattc aacttatcca atcctagtcg 240
 aaaagaagga aaagaggact tccagagagg ctctttttgg ggaagagcta gtgagag 297

<210> 2807
<211> 295
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556846H1

<400> 2807

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gaaaagacca aaattgagca caaaatctct gcgttgaagc tcaactcaga gagattaatc 180
tccaaaacga cgccgcacct cccaatgctt cttcttcttc atcgtacccc accaacggat 240
tganccagga catgattcac agatacagtc gcaacttggt ctcccttctt tggng 295

<210> 2808
<211> 297
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556847H1

<400> 2808

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actgcccagag actcttaaga attacaacaa gctgtgtctc ttggcttcaa gattatatc 180
ttgtcaggaa gaacactgga caaacaggcc gtaacagaag caaacttaaa gaaggctggc 240
taccacacat gggaaaaatt aattctcaag gatccacaag atccttccac tccaaat 297

<210> 2809
<211> 251
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556849H1

<400> 2809

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ttgacatgaa tcaggataac tattttgagg aggctttgaa gatgaggaac cttcttgaag 120
aatttcattc agntcatggg ctctgtctc ctactatctt ggtgtagag aacatgtctt 180

caactggcagt gtctcatctt tagcatcatt atgtccaatc aagaaactag ttttgtgact 240
ttggggcagc g 251

<210> 2810
<211> 298
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556850H1

<400> 2810

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gcttgctatc gttctttaca ctgtcttcac cgatggcttc cgtttcgcaa agaacttctc 180
acaccgtgga tggcagcnac tttgattgat tttatatcaa cgttgtagct ttggcgggtct 240
ggattgctta caaggaatca aacttnatca gctcaattct gtggattgtt tgctgtcc 298

<210> 2811
<211> 295
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556851H1

<400> 2811

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caatggcgag gatcaagggt tacgagctga ggcagaagac gaaggctgat ctgctgaatc 120
aactgaagga cctgaaggcg ganttgctt gcttctgttg ctaaggctcac cgggtggtgcc 180
cctaacaagc tttccaagat aaagggtgtg aggttgaaca ttgcccaggt tttgacggtg 240
attctcagaa gcagaangct cgttgangga tgctacaaga ataagaatnt tgccc 295

<210> 2812
<211> 298
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556852H1

<400> 2812

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 tattaggccc ttcttacctt ttcaaaaatg gttcaagaga tgtgtctttt caaaaaagct 180
 ttttctgaaa ttctttacta gtaatcgata acaggtttct ggtaatcgat tacacagtta 240
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<210> 2813
 <211> 300
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700556853H1

<400> 2813

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 tattaggccc ttcttacctt ttcaaaaatg gttcaagaga tgtgtctttt caaaaaagct 180
 ttttctgaaa ttctttacta gtaatcgata acaggtttct ggtaatcgat tacacagtta 240
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<210> 2814
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 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700556854H1

<400> 2814

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 atagatgatt ttttttttcc taaaggcat aactgaagga aaaaaaaaag gtaaaggttt 180
 ggnctgaaan agaaggcgtg aggnancttt tgaatatggn gggcaaggag gtgaggatgg 240
 agggtttcga cgttttctct gtngacctca atcaccaaca gcctccgccc cangccaccg 300

<210> 2815
 <211> 298

<212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700556855H1

<400> 2815

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 atatggaggt ttcggtgatt ggaagctctc aagcaatctg ggagcgctcg aattggcatc 180
 tagggaagtt ggattttgca atcttaagaa cnatttaagg gctttgaatg atagagttag 240
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 <211> 252
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700556856H1

<400> 2816

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 ccctcacacc gtcctcgccc ncgacgtcta cagcgacaag atcaaacacc tcctggatcc 180
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 cgactctcgc ct 252

<210> 2817
 <211> 299
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700556857H1

<400> 2817

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 gtatttttat ctgcaagaag tgctgtggac tctgagtga caatgctaca aattcacttc 180
 acagaattga ttggccaaca gatggaaagc tgttccaatc ttccaaaatt tatgatata 240

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 aaaagaagaa catgctttac taccaaagcc attctctcat ccaccagaga agatgtcttg 240
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<210> 2821
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 <213> Glycine max

<223> Clone ID: 700556861H1

<400> 2821

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 cggtgacaga tgtcaatttt taattgagtc gcaggttttt ccagtctctt gcatacggga 240
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<210> 2822
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 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700556862H1

<400> 2822

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 cgcgcttcaa cttccccaaa atcgagagat tacgaggggt gcagccctgt gtgagtgtga 240
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<210> 2823
 <211> 296
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700556863H1

<400> 2823

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tgctcacatt cttccacaag taaaactgct gcagaaccag ttacagtttc tttaagtatt 240
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<210> 2824

<211> 295

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556864H1

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tccatgcctg cttataggaa ggatgagtac aattggcgat atgacagtga tgaacttcct 240
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<210> 2825

<211> 238

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556865H1

<400> 2825

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tctggcaata aattaatctg tttgggaact tggagtgaat cttgtggtga ttcaatgtaa 180
agaataaagt ccatttggat aaaaaaannn ttagaggann agngggggcc nccccccc 238

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<223>      Clone ID: 700556866H1

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caagatttac caaagcattg aggagaagct tcttaggttc gagattttca aggataacct   240
aaagcacatt gatgagagaa acaaggtggt cagcaactac tggcttggct tggaatgagt   300


<210>      2827
<211>      294
<212>      nucleic acid
<213>      Glycine max

<223>      Clone ID: 700556868H1

<400>      2827

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cgccataacc tccatcggtg aaggtggtgt tatgacacag ccaccggcat cttaggccaa   180
ggcgtcactt agttggtgga gtaattgata ctgccacttc cttcttaggc cgtaatatct   240
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<210>      2828
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<212>      nucleic acid
<213>      Glycine max

<223>      Clone ID: 700556869H1

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agtgaaaagg accaacaaca acaattgcng tccgatacna caanaggccc tcttctcagt   180

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ggcaaaatct ccgtonatct catctggtac ggtaacttca agccttcnca gcgagncatc 240
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<210> 2829
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<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556870H1

<400> 2829

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cgctcttttg ttccctttgc gcgcaattca caggggaacc ttctggaatc acatgtttgc 180
aaagaatggg aataggcttc ataatacaata tcatagccac tgtgattgct ggcctaattg 240
aatgaaaag gaaatctgtt gctgctaagt accacttatt ggatgatcc 289

<210> 2830
<211> 298
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556871H1

<400> 2830

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<210> 2831
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<212> nucleic acid
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<223> Clone ID: 700556872H1

<400> 2831

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cgatactacg tggggccacaa gggcaagttc gggcacgagt ttctggagtt cgagttcaga 180
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<210> 2832
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<213> Glycine max
<223> Clone ID: 700556873H1
<400> 2832

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acaaggtggg cagcaactac tggcttggtt tgatgagttt gctgatttga gccaccaaga 180
gttcaagaac aaatatctcg ggcttaaggt agactactct agaaggagag agtcccctga 240
agaattcact taaaagatt ttgaattgcc taagtcagtg gattggagaa agaaaggt 298

<210> 2833
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<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700556874H1
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<210> 2834
<211> 294

<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556876H1

<400> 2834

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cagagtgtta cagtcacctg tgttcatcac agtcacagac aatgggtcca atcaattccc 120
gtaaattata gattctgtga cgctgctcgg actctctatc atccaactcc gccatcttca 180
agtggaaaag aacgggtaat tataatcgta accgttctgg aatgggaacc ttcaccacgc 240
gcgcgttggc gcagcggctc cagaacgccg acgaactcat cgattccgtc gaga 294

<210> 2835
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<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556877H1

<400> 2835

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caagtccatg gctggcttcc ccaccaggaa accaacaatg acattacctc cattgctagc 180
aacgggtggaa gagtgcaatg catgcagggtg tggccaccag ttggcaagaa gaagtttgag 240
actctttcct acctgccaga ccttgatgat gcacaattgg caaaggaagt aga 293

<210> 2836
<211> 291
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556878H1

<400> 2836

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tctcattgta ttcaccattt ttgggttaagt gtcattataa gtattacagc tgttactcgt 180
tccttggtgc ttttcttccc ttggtgcttt tccttccttt gttgctttcc aattattcag 240

tgagtggaaa ataactgctc gcacaattct ggtactgggt tcttgattct t 291

<210> 2837
<211> 284
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556879H1

<400> 2837

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nnnnnnnaat ccttttataa catttatagt ttcattctta atcgttgga aananttcatt 120
cgagaatttt aaggtagaga tctaattgtg aagtacaccg agactgagat tcagtccgtg 180
tacaactacg aaaccaccga acttggtcac gagaacagga atggcaccta tcagtggatt 240
gtcaaacca aatccgtcaa ctaccaattt anaaccaaca ccca 284

<210> 2838
<211> 294
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556880H1

<400> 2838

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tagagtccgc atttttcttc tacgatgaga caagaacctt gtgcgcgtga aggtgaagga 180
ttctcttgac acaagncnag ttggggatg tttaccaaga tgttgacatt ccatggctca 240
agaataagcc taaacctaaa agatctaaag ctaagaagtt ggcattggca caag 294

<210> 2839
<211> 260
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556881H1

<400> 2839

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gttctctatt ctacactgtg aaaccaagat gaaggtagca tttgtagctg ttcacttatt 120
 tgccttgtcc taagctcctc cttgttcgag gtgtcnatgg ccggttctgc tttctgctcc 180
 tccaagtgcg cgaagaggtg ttctagggct gggatgaaag acaggtgcac gagggttctg 240
 cgggattgct gcagcaagtg 260

<210> 2840
 <211> 292
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700556883H1
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 atgctgtagc tgtttgcatt tctgattgna ttggagggca agctgttttc tatcacttgt 180
 ggtcagtcac tgagtgaagt tgcccttggg aatctcagac cgttactctt tgtgaagaat 240
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<210> 2841
 <211> 242
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700556884H1
 <400> 2841

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 acggtggaaa tgatgcctct ggaacaatgg gtggggcatg tgggtacggg aacctataca 180
 gccaaagggta tggcgtgaac accgcggcct tgagcacggc gctgttcaac aacgggttga 240
 gc 242

<210> 2842
 <211> 294
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700556885H1

<400> 2842

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 acgttattcg gtgttggtgt tttcggcggg agattgggtg ggagaaagag ataattcttc 180
 ttcactcaaa tttaaataac atcattgcaa tttattgatt tcgattctgc tcccccat 240
 aattgcattg cttaatatac agcaacacgg gtgatggcag cgacgacggc gatg 294

<210> 2843

<211> 296

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556887H1

<400> 2843

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 accaccaggt tgtacatcag ttattcttgc cctatgcaca acgtgtgtgg atcgctagga 180
 actacaaggg gctacaagat aagatcaatt tggctcctat taaccttcaa gacaggccag 240
 cttggtataa ggagaaagtc taccctgaaa ataaggtgcc atccttggag cacaat 296

<210> 2844

<211> 287

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556888H1

<400> 2844

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 ttccccatcc ttggctggca aggccgtgaa gctgggcca tcagcccccg aagtcgggag 120
 ggtcagcatg aggaagaccg taccaagcag gcctcctccg gaagcccatg gtacggccca 180
 gaccgctca agtacttggg cccattctct ggcgagcccc cgtcctacct cactggcgag 240
 ttcccaggtg actacggctg ggacactgct gggctttcgg ccgaccc 287

<210> 2845
 <211> 291
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700556889H1
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 tggatgatgg tgtaaaaata gttacctcgc ttctgaagcc ggattcatga ggtgatggtg 180
 ttcctctttt agmntgttgt agcgttcaat cacagatttc atgctgtcat aatgtaggaa 240
 gtcnttacna gagcacgtta gcatatTTTT ttgtaagtaa ataaaagatg t 291

<210> 2846
 <211> 298
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700556890H1
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 tcggtnagca tgatgggggg gantaaatca anacccttta acggnnggaa atttgatgta 180
 cgtccttaac attancggtt tggagagaat ccntgtgat tagttgctaa aggatncacg 240
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<210> 2847
 <211> 290
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700556891H1
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 gaacgttgac tcagaacgag ccaggtttga ttccaactgg ttaaaccggt ggatggaatt 120

agataacaag agcagccaaa ctggagagct tcattgaaaa atggacgccc tgatgatgat 180
 aaaagtgaca agattctcga agtggatact tggaggccac acttcaagtc tcaccacagt 240
 agcagctcct tccaagcagc acattattat ttgagttctg attacaataa 290

<210> 2848
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700556893H1
 <400> 2848

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 tgctagttac ataggctctt gccttgtcaa gaagcttctg caaaagggt acaccgtcca 120
 ctccaccctc agaaacttta aggacgatca aagataggcc ttctgagagg gttgcctcat 180
 gctaattgat agagactggg gttatttgaa gcagacatat ataaaccaga cgagtacgag 240
 ccagcaattc aaggctgtga gattgtcttt cacgttgcta ctccctatg 289

<210> 2849
 <211> 288
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700556894H1
 <400> 2849

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 gcactctact cgttcatcaa agccagaatg gaggaagaaa agcgacaagc aaaagcagca 120
 taagaggaaa gtcgtcaacc tggagntgtc ttgcactgta aatcaccaca aatttccttc 180
 aaaataattg agtgactggg tcagtgttgt actatccttg tgatagcgcc cttttatttt 240
 tccttctatt tttgtcaa attttctttt tccttttttt ccttttttc 288

<210> 2850
 <211> 289
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700556895H1

<400> 2850
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 aagctcttgt atcatcatct tctcttacct tctcagcgga ggctgcaaga caaagtcttg 120
 gaccaagatc actccaatct ccatttgctt ctccagaaaa gcctcctttc ttgttaaggc 180
 agctgctacc cccctgtca agcaaggatc agacagacct ttgtggtttg catcaaagca 240
 aagtctttct tacttggatg gcagccttcc gggtgactat ggatttgac 289

<210> 2851
 <211> 201
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700556896H1

<400> 2851
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 aatactagtn gatccacatc agaganatcn tttgatccca ccttccagaa ggcttcccaa 120
 tgggacttgg gaatcctgtn nnncgnggta tcnatnanc tnncagtggn gcctcntagn 180
 nccnaacag gngcctncng c 201

<210> 2852
 <211> 292
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700556901H1

<400> 2852
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 atccaaagga agttgacgga ataaaagttc ttcagctgga aactgcagct ggtgctgcaa 120
 taaggttctt tgacaaggct attgggatta atgttcctcg atcacgattc cttcctgtga 180
 aggcaacttc agatttgctt cttgtccagt ctgacctcta cactttggaa gacggatttg 240
 tcatcggaac aaagctaggg aaaatcctga aaaccttcta tgaactggga ca 292

<210> 2853
 <211> 289

<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556902H1

<400> 2853

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atgaaaactg gctatggtga gcgttcttcg gaggtaaaat gcgcaagttt taggcttgct 180
gtggaagcac acaacatccg agcctttaaa accattcctg aagagtgcgt tgaaccaaca 240
aaggactaca ttaatggcga acaatttaga tcagactcta aaacagtta 289

<210> 2854
<211> 269
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556903H1

<400> 2854

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gcactaanat gcgccgnacc gtcaagantg ctctcagag catttggtat ggccctgacc 180
gtcccaagta cttgggtcca ttctcggagc agattccatc atacctgacc ggagaattcc 240
ctggtgacta cggatgggac atgctggat 269

<210> 2855
<211> 290
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556904H1

<400> 2855

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aatcaacact aaaggtttca aagacaaaga atacttcact cgtgaccaga tgtgaaattg 180
gtgacagtct ggaagaattc ctcacaaaag caacaccaga taaggggttg atcaggttgt 240

tggtgtccag ggagaagcat taagaacaat ttccttcaaa gtgaagacgg 290

<210> 2856
<211> 289
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556906H1

<400> 2856

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catgaaggcc tctatccgcc ccgacatcgt caatttcgta cactcgaaca tctccaagaa 180
cagccgccag ccatacgccg tcagtcgtcg cgctgggtcac cagacctccg ccgaatcctg 240
gggtacggcc gagccgtctc ccgtatcccc cgtgttcccg gcggcgga 289

<210> 2857
<211> 289
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556908H1

<400> 2857

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agcttgcttg caaggcacag aagcaagagg atattgatgt cagcccaatc tctcgccggt 180
tagctctaac cgtgctcatt ggtgctgctg ctgttggtc caaagtccaa cctgctgatg 240
cagcttatgg ggaagctgcc atgtgtttgg aaagccaaag acagacaca 289

<210> 2858
<211> 289
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556909H1

<400> 2858

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 caatgatcgc catagccaga agtttatatg gcaacactaa gcgacaacaa gagtcattcg 180
 atgagcacga agaaactgag gatgacgaag aatctgagga ggcagacaat gggaaatgga 240
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<210> 2859
 <211> 288
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700556910H1
 <400> 2859

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 ctgtttctccc caatgcttct cctcgctccct ctccctcacc cctaactcca aaccatttc 180
 catttccgcc gttttctca aaannnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnncgtc 240
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<210> 2860
 <211> 287
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700556911H1
 <400> 2860

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 aaggttgga tgattgcagc caatgatgga gttctactaa gaaaccatat tccacgtatc 120
 cttaaaaagc acttcagggg aaagccatat tacgttgatc ttcttgattt gtttaatgag 180
 gttgtacttg tacaaatgtt gaagtttaat ttatgtggat ttcattctgt taaaatgcta 240
 aagttgacta tcatgctttt ctttttaggtt gagttcctga ctgcttc 287

<210> 2861
 <211> 265
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700556912H1

<400> 2861

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ccaccgacca aatcaaccga agttcttact tcttcacact cacactttct atttcctttc 180
tattgattat tcgtaaccat cttctgaaat ctcgttacat ttcaattctt ttgtgtattg 240
aagagaatca tattgagaag cagcg 265

<210> 2862

<211> 287

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556913H1

<400> 2862

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gagagctcaa gttegtcttc gagtctttct gggatggcaa gagcagcgcc gaggatttgc 180
agaaggtggc tgctgatctc aggtcatcca tctggaagca gatggctggg gctgggatca 240
agtacatccc cagcaacact ttctcgttct atgaccactg ctcgacg 287

<210> 2863

<211> 286

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556914H1

<400> 2863

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tgatcctgag aaacacatag atgaatatct accagtgcgg gttaatgagc aaagaatgac 120
caacttattg cagtctctcc tgggtgctgt atcaatctta gccatgtcag ttatcaaaag 180
gataccaacc tcagttctat ggggatattt tgcttacatg gcaattgata gtctcccagg 240
gaatcagttc tgggaaagga tattgctctc ttcgtcacct caagcc 286

<210> 2864
 <211> 290
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700556916H1
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 gattttgtga catctgactc aactgattaa aagcattatc atactgcaca aatggatgtc 120
 gaacttgttg caaattaaaa ggcatacaagt taacannaga agttggaata ctccatagcat 180
 acctttcata gttacgatca taatctggat cactgcgatc cttccctat ctctcaagat 240
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<210> 2865
 <211> 286
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700556918H1
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 caataagagc aagagggagg ttgaagatga tgttgagaat agtgatactc tnnnnnnnnn 180
 nnnnnnnnnn nnatatgacg agggggaaca attggcaatg gaacaagtga aagagatgaa 240
 gaagcttgag aactttttgt ttggttcttt atattccccc ttgagt 286

<210> 2866
 <211> 287
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700556919H1
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atgccaccgt ccaagatatc aaggatgaaa atgagacgaa acatttggag gaaatggaag 180
gagcaaagag tcatctccat ttttttgaaa tggatcttct tgacatcgac tccattgccg 240
ctgccataaa gggttgttcc ggcgtaatcc accttgcacg tcctaac 287

<210> 2867
<211> 283
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556920H1

<400> 2867

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atgaaaccac ctcagacaga tccttctcaa aagaatcaac ttcttatttt aaagtttctt 120
ccactcatga ttggctactt ctcattatct gtcccatctg gactaacaat ttactggttt 180
ataaacaatg tcctgagcac agctcaacaa gtatggttgc gaaaattggg aggtgcaaag 240
cctgttgtga atgaaaagcg gtgggatatt actgcagacg tgc 283

<210> 2868
<211> 276
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556921H1

<400> 2868

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acagctccaa ttttgaagtc agagaagtcc ttatcaaggc tganattcan acagagagac 180
agagaatact tcttttagac acatcanaat cgccagttga nacgatacgt gcgggtgggc 240
gntagattta ttgtagnnca gatgtganag agctgg 276

<210> 2869
<211> 285
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556922H1

<400> 2869
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 atgagcattg gagtgatggg gccttagagg ctgatttacg tcttgctgac ttacgtgcta 180
 agcaacgtgc gatggaagat ccccttatgg ccttgaggct tatcaaaaac atccacaaca 240
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<210> 2870
 <211> 286
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700556923H1

<400> 2870
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 gataaaggca atggaaccaa agtagttcca attgaggccc taattaagaa agctgttaga 180
 aaaagatctt cgtacatcaa ggctaataca gagaaaatca ctatggctgg tcttcgtcga 240
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<210> 2871
 <211> 288
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700556924H1

<400> 2871
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 catctgaatc tgtaaacgag ggtcaccctg acaagctgtg cgaccagatc tctgatgcag 180
 tgctcgatgc gtgccttgaa caggaccctg acagcaaggt tgctgtgag acatgcacca 240
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<210> 2872
<211> 277
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556925H1

<400> 2872

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tgctgaggat attgaacaag aggctttagc aactcttggt gtgaacaaac ttagaggatc 120
actgaagatt gcagcactga agggccctgg gtttggagag cgcaagagcc agtaccttga 180
tgatattgcc atcttgactg gaggtactgt aatcagagaa gaggttggcc ttactttgga 240
caaagctggg aaagagggtc tcggatatgc ctccagg 277

<210> 2873
<211> 284
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556926H1

<400> 2873

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aagttccaag attatgagcc tccctctagc ccaaaacaca tgatcccaa agtgacctta 120
ctagcaatct tggtcatact aatatttgcc gtaaccctt tatggtacct tttgttgagt 180
tactcttcac acttgaacat caataagaat attccatcat catcttcac atagatcaa 240
aggcaagaag aaaacttgcc ctcaacatat gtggagagtg tgac 284

<210> 2874
<211> 285
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556927H1

<400> 2874

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ggtgcaggcc cggttcgggt ttggcaagaa gaaagccgcc gcccgaaga aagtttccag 180

ggggtcgggc tctagctccg ataggcccct gtggtatccg ggcgccaagg cgccgagtac 240
ctggatggga gccttgctcg agattacgga ttcgacccat ttggg 285

<210> 2875
<211> 277
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556928H1

<400> 2875

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gtgcatttgt tccattccaa tttctaactt cccatgtaca atatccacct agcatagcta 120
taanatacac atcatttntc acccaacaac atcattcaca tatctataca caagatcgag 180
ngngagagag agaagcaaaa aaaacaacaa ccttaatttg aattttccta ttcctatna 240
tatttttctc tccgaccagg ccttttttga ggaggaa 277

<210> 2876
<211> 282
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556929H1

<400> 2876

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atttttttga gtggtggtgc tgattacata cgccttcaa ggttgatgg gtctgtctac 120
caaatgggt acttagattt ggatactgtt ttgatagaag cgttttatga tccggtgtgc 180
ccatacagca gggattcatg gctccactc aaacaagctc ttcactacta ttcttctcgg 240
gtttcgttcc tccttcatct cctcccttac cttaccagac aa 282

<210> 2877
<211> 284
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556930H1

<400> 2877

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 gcggaaaagg tcagttatga caatgacatg gatggtagca atggaaggag gaacttgatg 180
 ttcgccgcgg cgcgcggctg ctgtttgctc tgttgctggg atggcagtgg cagatgagcc 240
 aaaaccagga accccagcag ccaagaaaa gtatgctccg attt 284

<210> 2878
 <211> 289
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700556931H1

<400> 2878

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 cttgtaatag gaattggaag cttgtgaagt tctgtaatgg ggaagtcag ggacgtaagc 180
 ttttgttaaa aaatggtggt ggcagcacta aggattttta gcgccaacaa caacatatat 240
 gcatgtctct caccgctgat gtgtccactg aatctaagtt gagagacct 289

<210> 2879
 <211> 294
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700556932H1

<400> 2879

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 tcagacgctc tcacatagca ctaccaactt caaccacat ttcattgctc gctctcttcg 180
 cccctcccaa acgangccaa agcngctgtc agcatcgcca aggaccagat tgtctcttct 240
 ctcacccaag ttcaggaaat ggggttcggg gtgctggaca ggcacagcgt gttg 294

<210> 2880
 <211> 290

<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556933H1

<400> 2880

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tccttctccc agttcggcgt caacgccctc ccccatatcc gcctcattgg gcccaacatg 120
ggcctcaagg actccgagtc catggaccag ggcgacttct cccgcctcgc cgactccatg 180
gccgagttcg tcgagtccaa gactaacctc tccgtgggcc ccatccaccg cccccccctc 240
ttctcccgca accagctcgt cctcttaacc gtcttcatcc tcctctggat 290

<210> 2881
<211> 284
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556934H1

<400> 2881

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accttgctgc ttctctcact acattgcagg gtcttgaggg cattgtgggc aaagataagc 120
ttgttgctgc cacctcctcc tcccttcttc aactgctgt tgatcttggt aacgagacca 180
agttggatga cgagatcaag tcatggctag catttgctgc acaaaaaatt gttgaagtta 240
acgcattggc taaggcattg tctggcaaca aggagtggcc ttct 284

<210> 2882
<211> 287
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556935H1

<400> 2882

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gaaggatgta ctagccaaat gctacggtgg ggatatttcg agaaaaaaga aattgcttaa 120
gaaacaggct gaaggaaaga aaaggatgaa gtctattggt aaagttgatg ttccccaaga 180
agctttcatg gcagttttga aacttgaaaa ggaggttaata tgatcgtggt tacgtgtaag 240

ttgcaacatg atatgaattg taaatatatt aagaaaatat tagaacc

287

<210> 2883
 <211> 268
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700556936H1
 <400> 2883

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 gcgtttctcg ggtccaatga ctgcgcgcgc ccactccttc aaacgtnnnn nnnnnnnnnn 120
 nnnnnnnnnn accgcccga ccacctccca cggcggcgcg gcggaagtgg cgccggcgaa 180
 gttgagcttc aaatcaactc gccagatcg gaggaagcgt cggagggagt tccggtgggg 240
 aagcacagcc accatcacgt gatcagag 268

<210> 2884
 <211> 285
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700556937H1
 <400> 2884

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 gctgagtttt gactatggac aaatcgaaca agaccaagat gtttctacat cacgaaactc 120
 aatggagttg gatcaggtgg aacttacact tcctagagat tctacagctg aagctgctaa 180
 ggaaaactta gacaaccttg taaggaattt gttttcctca aggttagggc agggagccaa 240
 tctgccccac tttttgctga taataaacca gatgcaagtg aaaaa 285

<210> 2885
 <211> 284
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700556938H1
 <400> 2885

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aacgttccca aatgttggca tgaatttagc gatgcaaaaa attgaagagg aaattccttt 120
 cccccctgga actgagttaa cagaaatatt ggacattgag ctcccacctg aagatattgg 180
 gaacgcattg cagcttttag agttttgcag agtgtttgga aaggctcttg atctcaagaa 240
 gggagaagcg atgccattta cgagattagt acgtaaaca aatt 284

<210> 2886
 <211> 286
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700556939H1
 <400> 2886

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 aagttatttg ttttttgggt acaaacttat cagattaatt tgaaactagc gtcacttgat 120
 tgtaccattt gttttctgga atgaatcctt tctcatgaag tgataagatt atgagaagag 180
 aggtagatgc aaagccctta aatagtaact tgaaactttt gtttataagg tcaacttatt 240
 taagattgcc ttagttggat gtttctttat tcccttgaaa aatatg 286

<210> 2887
 <211> 287
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700556940H1
 <400> 2887

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 ttttntntn cttctccgaa gangaaaaat ggacctcggc gacgatgcgc agancantct 120
 cactctccct cgtncctcga ttccttctc tgcgaagagc gagaaacgtt cgaggaagac 180
 tttgacgcga acggtgacga gtgcgagacc gaaaacaacg acccctctgt gataaagtcg 240
 caacctttgc ccttggtttt gtacgacaat gacctgttct gggaaga 287

<210> 2888
 <211> 286
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700556941H1

<400> 2888

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tcccaaggac acatttgtgt tcagtataga tggcaccgta ctctctaata ttccatacta 120
caaaaaacat ggatatgggg tggagaaatt taactcgacc ttgtatgatg aatgggttaa 180
caagggaat gcaccggcac tgcccagac tcttaagaat tacaacaagc tgggtgtctct 240
tggcttcaag attatattct tgtcaggaag aacactggac aaacag 286

<210> 2889

<211> 77

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556943H1

<400> 2889

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atattgtaat atataat 77

<210> 2890

<211> 283

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556944H1

<400> 2890

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aactttttgt ggagctcatc tgggtctgga tacgaacata cttggccaga aatagaattt 120
gggtggagaa taataacggg tacgataatt ggattcgtag gatctgcatt cggaactgtg 180
gggtggtgtg gtgggggtgg catctttgtc actatgctct cccttattat tggatttgat 240
gcaaaatcag ctactgcaat ctccaagtgt atgattacgg gtg 283

<210> 2891

<211> 282

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556946H1

<400> 2891

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agaaaaaaca tgtctagggt ttttggttc ttctttgtgg gtcttacgtt gatgttggtc 120
gggtgtggcaa atgctatggc taactcttcc aacaaatttg atcaactctt ccaaccaagt 180
tgggcttttg accactttat tcatgaaagg gatcttctca aactcaaact tgacaaattt 240
tccggggctg gttttacttc caagagcaag tatagtttgg ga 282

<210> 2892

<211> 285

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556947H1

<400> 2892

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ctatttactc ctaactcaga aagtgtgaag gaattccctt ctctgaatc acttaagaag 180
agaattatta tatcaaccaa accacctaag gagtaccttg aggcaaaaga aaaggaaaaa 240
ggggatgatt cacagcacga aaaggagaaa gggatgattc agagc 285

<210> 2893

<211> 283

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556949H1

<400> 2893

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agctggaaaa atatacaagg agtttgggtat caccaaggaa gctgttattg ctgctgccaa 120
agaactttcg tagatatatt tgttgagttt cttttatctc atctagaact tgtggttttc 180
acttggtggct ttgggttact gttacatgac ttgttttttg agatatcact ttagccacaa 240
taaggaagat tagatgttct gcatatgatt gtcagaggaa cca 283

<210> 2894
 <211> 279
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700556950H1

 <400> 2894

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 aacgaaccca tatatgatgg agtgtgccaa aggggttata ggacattgag ttctgggtcct 120
 tgtaatccat ccagagttat tgggaatttt tctccaaatg ttggaaatgg tgtaatttg 180
 aagaacttgt tgcttttttg agccgcggat acatattggg ggacatctag atccgttcag 240
 ggtcagcatc atggcaagga ctattacgaa tgcttggtg 279

<210> 2895
 <211> 96
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700556951H1

 <400> 2895

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 cnaacaacaa ancaacttgc actnçctggg tttttt 96

<210> 2896
 <211> 74
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700556952H1

 <400> 2896

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 taatcttacg gtgg 74

<210> 2897
 <211> 273
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700556953H1

<400> 2897

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 agcagccacc tcgtccttca tggggacgcg cctcctggag gcccaactccg gggcggggcg 120
 ggtgcaggcc cggttcgggt ttggcaagaa gaaagccgcc gccccgaaga aagtttccag 180
 ggggtcgggc tctagctccg ataggccct gtggtatccg ggcgccaagg cgccgagtac 240
 ctggatggga gccttgctcg agatacggat tcg 273

<210> 2898
 <211> 286
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700556954H1

<400> 2898

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 caacacagtt caagtttctc gtttccctaa acagatccta acaacggaac acaaacacgg 120
 agaaacaaaa atgcacgcaa agacagactc agaggttaaca agcctcgccg cgtcttcccc 180
 cacgcgtcc cctccacgcc gtccctctta ctacgttcag tctccctcgc gagattctca 240
 cgacggcgag aaaaccgcaa cgacgtcgtt tcaactccacg cccgtt 286

<210> 2899
 <211> 97
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700556955H1

<400> 2899

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 cacgtagcta cttcacgtga ccacttgctg tactcat 97

<210> 2900
 <211> 283
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700556956H1

<400> 2900

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gctgataatc ttgtctcttt tctgaacaat gcaaaaggag caacagttgg tgatgcggtg 120
aagaagcttg gtttgtgggg tctctttacg cgtggtctcc ccctccgaat tgttatgatt 180
ggaactctta ctggagccca atggggaata tatgatgcat tcaaagtctt cgtcggattg 240
ccaaccactg gtggtcctgc tctgcagct gctccagctc ctg 283

<210> 2901
<211> 285
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556957H1

<400> 2901

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tcccaacacc acaatttaaa aagcaaggcc ttcgcagttg ttttcaccac aacaaattct 180
ancccaattc caaagannnn nnncatgagg ctattgangg ttggnacatc taatctgaac 240
caatgggcga tggacttcga ttgcaacgcc aagcaaatca aagag 285

<210> 2902
<211> 280
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556958H1

<400> 2902

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cacaattttt atttttttat ccaancacaa aattntgana atataagant ttcaattgaa 180
gtatttgaaa ttcttattaa attctctcat ccaaacacac tcttaaggta attattacaa 240
aagtnaacta tcttaccttg aaatttaata tagaataaat 280

<210> 2903
 <211> 282
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700556959H1
 <400> 2903
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 ccataacatg gcatcagaag caaatgctgc caacaccaac ttctgtgtaa atgttagcaa 120
 caatggctac attagtgcta atgacccctt gaactggggt gcggcggcgg aggctatggc 180
 tgggagccac ctgcagcagg tcaagcgcgt gctagangag taccggacgc ccgtcgtcaa 240
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<210> 2904
 <211> 156
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700556960H1
 <400> 2904
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 cttgttaagg cctctttgac atgtacagat tttggctttg aagttaacaa gagactgaac 120
 aaaaataata cagaattatg cggctatttt tccctc 156

<210> 2905
 <211> 281
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700556961H1
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 gttgtaccca ggtggcagtt acttcgaccc attgggcctg gcctcagacc cagagaagaa 120
 agccaccctt caattggcgg agatcaagca cgcccgctct gccatggtgg gcttccttggg 180
 ctttgagtc caagccgccc ccaccggcaa gggcccgcct aacaactggg ccaccactt 240

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281

<210> 2906

<211> 282

<212> nucleic acid

<213> Glycine max

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<400> 2906

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gtagagagtg aatggggcca gggtgctaag cttgatgttc tggaatcaaa gattgcttca 120
gatacttcac acactattaa ggcaatttgc attgtccaca atgagactgc aactgggggc 180
accaatgact tggccaaagt gagacaaatt ctcgattcct accggcatcc agccctcctt 240
attgttgatg gagtgtcttc tatttgtgct ctgatttccg ca 282

<210> 2907

<211> 287

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556963H1

<400> 2907

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ctctgcatcc tcttgcttac ctctcccat ttccacacc ttctacttcg cgcctttctt 120
tctnnnnnnn nnnnnnnnnn nnnnnnnnnn ntctatcaat ttctccttct tttttatcat 180
acacttcttc aaattctaca cactttgcca ctcatgctgc cttcagcatc agtgccagcg 240
ccgccgagaa gaagaagggtg ctcatcgtca ataccaacag cggcggt 287

<210> 2908

<211> 288

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556964H1

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cttgcaagac cgtggcagat tcttatgggt ttttcaagaa taatgccaag gagcagggtt 120
 ggacgatgtc agaatcacat ctaaatectg gtcgagcacg gttcatcca gttgataata 180
 atagatgata ttctcagctt tcggcagctg ggttttgact gtcaaagttc ttgggactgc 240
 tctggatgtg aatgagtcgg gcaactgaag cttaaaatta ccaaaagg 288

<210> 2909
 <211> 283
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700556966H1
 <400> 2909

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 attcggatc atcaagggtg ccatgaccac cactcactcc tacaccggtg accaaaggct 120
 tcttgatgcg agccaccgtg acctgaggcg tgcaagggtc gcagcactca acattgtccc 180
 cacttcaaca ggagcagcaa aggcagtggc ccttgtcttc ccaaccctca aaggcaaact 240
 caatggcatt gcactccgtg tgccaacacc gaacgtctca gtg 283

<210> 2910
 <211> 283
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700556967H1
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 acattcctgt tcgtttttcc ttgcacactt ttcttctnct tcgctccgtg ccatgtcttc 180
 ctctctcgtt ctctcttcca ctcccttctt cgccaatgga acaagaatct tcgctctcaa 240
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<210> 2911
 <211> 273
 <212> nucleic acid
 <213> Glycine max

<210> 2914
 <211> 283
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700556973H1

<400> 2914

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 ccaaaccaac atcattcttc acaccttcac ctaccaaacc tttcttacc ttcacctcac 180
 caaaccactc tctcaccaaa aatctcaagc tgaactccac tttgccacac ttttgcttgt 240
 cttcagttcc caagaaatct ttcacttgta gaagccaggc tga 283

<210> 2915
 <211> 269
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700556975H1

<400> 2915

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 gccacttgt tctggtggct ttacagaagt ccatacagag tggagaatcc ctccaagcct 180
 tggccaatca ttctctggct tcagggagga ccaggctctt caggagtgg gtttggaat 240
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<210> 2916
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 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700556976H1

<400> 2916

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tgtaagggga attgacttta aaaatgtata cacgggttata aactttgaaa tgcctcagag 180
 tgttgacgga tatgtacatc gaattggacg tacaggaaga gcatacaatt ctgggtgcttc 240
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<210> 2917
 <211> 279
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700556977H1

<400> 2917

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 gatattcctg caagaagcct tcaaaggcca cagcagatga ttttgcttac agtggccttg 180
 gcattgctgg taacacctca aacattatca aagctgcagt gaccctgca tttgatgctc 240
 agtttgctgg tctcaacggt cttggcattc cgcagcacg 279

<210> 2918
 <211> 281
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700556978H1

<400> 2918

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 agaaaaaccc cttttgtgca gatgagtggc cactgtatg ctaccaatgg aactggaaat 180
 ctttcacgac agaatatagt tgcgacacga accaaagtag tggagagcaa gacagaaaag 240
 ttttctactt tcaatggcac agatgaaaat cgttgggata a 281

<210> 2919
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 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700556979H1

<400> 2919

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ttgcgcgaan accatcaggt gtgttcagtt gctctgtttt atgcaactct gtttttttgg 180
ttccgcctag gtaggtgttc atgtcttggtg ttttggactt tcggtactaa gagtaggcac 240
taagcattac tgcagtattt taagttgttt tgtttccttt t 281

<210> 2920

<211> 144

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556980H1

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gcacttctac ttaaatgtta tcatgtactt tatgtaacgc ctaaattagt tcctaaatca 120
acctaccttt cagtttcaaa aaaa 144

<210> 2921

<211> 278

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556981H1

<400> 2921

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tttttgctg aagggctgtg tctactgtga cccttgccgt gctggttttg agacctcagc 180
taccacctac attgctggtg ctgagattat gttgcaatgc aagagcaggg ttagcaacga 240
ggttgtgtac agaagaaggg gtacaccgac tcaaccgg 278

<210> 2922

<211> 279

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556982H1

<400> 2922

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caagaagaag agaacagaac agctattcgg ttctgtcagt tcaagaaatt ctccaattga 180
aataattgnn gtataactct taactcatca ctctcttgta tattttatat tagttaatat 240
acataaactc ttggggctat tatttcatac tataacatt 279

<210> 2923

<211> 281

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556983H1

<400> 2923

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cgcccacgtg gcacagctgg ttgatcagct ggagcgccac tgcttcgctc ccgatggatc 120
tctcatctcc aagcctctct tcaacgatct ccaactcgcc agagatgaaa tgtgcaggga 180
aagactgcgt tacctggaag ccatggctat atattctgag gctattgcaa tgggtggagga 240
gtatcagcaa gccatttctg tgtctaacct tgggtggaatc a 281

<210> 2924

<211> 281

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556984H1

<400> 2924

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tctactgcta ctcaaaaagg atttgggaca tcatgtgcag tgattcgaaa agtaaaacttt 120
cttccccaac cctcgtcgtc atggagaata gtaacattca gaagcagaat ctggatggtc 180
tctacaactc ggttttgctt gaattgtctg catctgatga ttagaagctt tcaaaagaga 240
ggtggaggaa aaaggcttag atgtgaacga ggcaggcttt t 281

<210> 2925
 <211> 270
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700556987H1
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 ttcccatcc ttggttgga aggccgtgaa gctgggcca tcagcccccg aagtcgggag 120
 ggtcagcatg aggaagaccg tcaccaagca ggctcctcc ggaagcccat ggtacggccc 180
 agaccgcgtc aagtacttgg gccattctc tggcgagccc ccgtcctacc tactggcga 240
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<210> 2926
 <211> 281
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700556988H1
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 atgactctta tacaggggat aacagcacia caaaaacaaa tggtgctcag aagataaact 180
 tgacttgata cctgctaaca cactctatt cagttccagt aattttcttc ttcagtgatt 240
 caatgtctgt agctagctcc ttcctgctag acttaaacag a 281

<210> 2927
 <211> 278
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700556990H1
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 acgcgcgggg catggttaagg canattcaac ttcacgccgc cagcattggg ttggtttggg 120

gagattacat taccaaaaact attcgatttg gacattttctt actgtgcatg tttcataggc 180
 atttaaattg catctccaca cttctattgc aanatcaata ctacttattt ttcctttccc 240
 gtgtaatgtg attggtgtgg ttggtgttnn tcagaatt 278

<210> 2928
 <211> 278
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700556991H1
 <400> 2928

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 tagataacaa gagcagccaa actggagatg cttcattgaa aaatggacgc cctgatgatg 180
 ataaaagtga caagattctc gaagtggata cttggaggcc acacttcaag tctcaccaca 240
 gtagcagctc cttccaagca gcacattatt atttgagt 278

<210> 2929
 <211> 279
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700556992H1
 <400> 2929

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 gcacccagga taggatgcat aggacactta acccgtatat ctaacaaact tgtccagtta 120
 gggaataaca acagtgtgat tcaggaacat ttgcagggna atagtgaatg gaaagattgg 180
 tacctgantg ttttatctaa tcgcaatgct gtggaaaatg tctatcaatg gtcgtgtggg 240
 agaccaacag cgttgcatga caganatagg gatagtgc 279

<210> 2930
 <211> 278
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700556993H1

<400> 2930
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 aaagaccagc acatctttgc tcaanntcac tcaccgttgc atccaacaac tttgattcgg 120
 taccaggtgg actcggtcgt cttgtgctga atgttagaag caccagcttg tgtcgaaggt 180
 ttcgtggctt gaaactgtgg gtacttgaga gactcaactt ccaattccag ccaccaaagc 240
 aacctaagaa tagaaatcat cacttcaaaa ataatttg 278

<210> 2931
 <211> 279
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700556994H1

<400> 2931
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 tggaccaaga tcaactccaat ctccatttgg cttctccaga aaagcctcct ttcttggttaa 180
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<210> 2932
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 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700556995H1

<400> 2932
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 gctcgcaaaa taggcatgc ttgtctttat taaattttac aagcagcact cgatcagtga 120
 ggatggcata aagaaatgtt taccatctgt tctgtttatt aatctacaat tcagcttcga 180
 aaaccctgag aaatattttc actgtgatca tagtcaagat cttctccgga agatccctat 240
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<210> 2933
<211> 284
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700556996H1

<400> 2933

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caaccctttt tcagatccct gaagggttgt gttcatttgt cgaaataata acaacttgct 180
tggaacaagc ataataagca tggcaagcgc gttgcagctt caggggggttc aagggaaacta 240
cctttgtgtg agtgtgagga ggggcttgca tcattgcaag cctc 284

<210> 2934
<211> 275
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700557002H1

<400> 2934

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tgttcttcta cttgcaggat tcttacacag cacagttatt tcctctcata aagttaccgc 120
gggataagtg cagccttctt ccccatcgcc acttctggat atccagcaaa cgtattgtga 180
ccccacaagg gatcatttct ggttcagtgg agataaatgn tgggaaaata atatctgtcg 240
ttgagggaca tgctatccag gggaagccta agcaa 275

<210> 2935
<211> 274
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700557003H1

<400> 2935

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tggaggttgc aggagcgggtg gatacttgct atgttgggga aganattgga aagattgttt 120
tcaattcttc tagatatgtg gcatggaaga gcccttgaa ataccataa taaatgacct 180

tactatgatt ttgggctcta tatctcagtc caaggcagca ggagttgtag ttgatttcac 240
tgacccttcc tcngtatntg acaacgtaaa acag 274

<210> 2936
<211> 94
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700557004H1

<400> 2936

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tatagctaca nccntanaga tttangccaa atgc 94

<210> 2937
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<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700557005H1

<400> 2937

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accagaatat tagagaatcc aaatcaacaa ttagatcggt atttcagcag cttcaaagag 180
ttagctggaa atcgtccttt atcagagtta cgaactgctg atgaagctgc tgcagtggca 240
ggagttgctt cagaggctac tggccaagct ac 272

<210> 2938
<211> 273
<212> nucleic acid
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<223> Clone ID: 700557006H1

<400> 2938

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ggaagatgaa ggaaagcagt natgggtttg tgagagcgga tcagattgat ctgaagagca 180

tagatgaaca gtngganagg cacctcagca aggtgttgac catagaaaag anaaagcgct 240
 ctgaagggga agnngatgct gatcatgttc atc 273

<210> 2939
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 <213> Glycine max

<223> Clone ID: 700557007H1

<400> 2939

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 gactccgtca aaaccagaa agctttcctt gaatcattgc tactccaatc ggggtgctgtc 180
 cttttcaggg gattcccact ctccaccgct tctcacttca acgacgtcgt cgaagcattc 240
 ggctacgacg agcttcctta cgtgggcggc gccg 274

<210> 2940
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 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700557008H1

<400> 2940

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 tcgtaaatac tctcccaaac ttttcagatc caataaatc atggttttct gggtttttgg 180
 ctacgggttca ctgggtgtgga accctggatt cgattacaat gagaagatta taggtttcat 240
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<210> 2941
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 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700557009H1

<400> 2941

<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700557012H1

<400> 2944

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tggttctagag tgacggatag taactcttgc ttgtttgtat caaaagttag accaacacca 240
gtggacccta ttcttggttc gcaggagcga c 271

<210> 2945
<211> 270
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700557013H1

<400> 2945

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cacgaggtgc agactcaatt gggatatttga attttctgtg atggtcacgt ggatatccgg 180
ttactgcttt tttgtcctta agttttcttt tgttcttctc cccatgatga tatggtttga 240
cctaaattat tagtacttgc tgcgtttagt 270

<210> 2946
<211> 270
<212> nucleic acid
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<223> Clone ID: 700557015H1

<400> 2946

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acattgagtc caagggaagg atgaagaagg gtgatagggt gtggcagata gcgttcggga 120
gtgggtttta atgcaacagt gctgtgtgga agtgcaacag aagcattaag acaccggttg 180
atgggccttg ngctgattgc attgatcgtt acccggtcca tattcctgag atcgtaagc 240

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270

<210> 2947

<211> 275

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557016H1

<400> 2947

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tccatcttcc aacgtcggng cttgtntgaa ttaaacaat ttctctgtat ctgtnttctg 240
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<210> 2948

<211> 252

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557017H1

<400> 2948

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agctgagact tactcaagga actcttcagt ctcttctctg ccagagactg tagaaggaaa 180
gcgccatatt tcttctcaga tcgagaagaa taggggacta acccgcaatc gcaacaaagc 240
aaaaaagatc cc 252

<210> 2949

<211> 272

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557018H1

<400> 2949

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<210> 2950
 <211> 209
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557019H1
 <400> 2950

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<210> 2951
 <211> 271
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557020H1
 <400> 2951

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 ccacaactac caccacggat ggcggcgacg ggcagggcgg aagcgaaaac ctactgggtgc 240
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<210> 2952
 <211> 274
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557021H1

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gaggagaagg agaaggattc caagaaaaag aagaagatca aggaggtgtc tcatgagtgg 180
caactcatca acaagcagaa accaatttgg ctgcgaaagc cagaagagat caccaaggat 240
gaatacgctt ctttctacaa gagcctcacc aatg 274

<210> 2953
<211> 265
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700557022H1

<400> 2953
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aaacgcaaag cctcagttc gttataggcg tggttttggc accaccacca gaatatgctg 180
cacctctaataattacaacg acaacaacat ccaacgacga cccaatccg aagctattca 240
agtttactcg caaatcgaga gatta 265

<210> 2954
<211> 265
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700557023H1

<400> 2954
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cactcttact gttgtctaga ttatgcacag atatatgatg tggttaggta cagaatacat 180
cgcatgaaaa agctgctgaa agatgaattg gacaacaaga acacaattga ggaatatatc 240
tgtacaanat gtggaaaaag atatt 265

<210> 2955
 <211> 272
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700557024H1

 <400> 2955

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 gttgtctttt gaagttgtgc aaaggatggt gtcacacaaa aggccttagt acattgagtg 180
 ctgtnagtac tgctgctgaa aggacagatt tacagttttc tgggtggttat caaaatgatg 240
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<210> 2956
 <211> 271
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700557025H1

 <400> 2956

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 gataagcagc caccgatatt ttgcagctct gcttcgatgc acgagcctgg aaaacactca 180
 atgaccagat tgtcgttttg tcaaaacgac gtggccagct caagcaggct gtaacagcta 240
 tgggtgcaaca ggctatgcaa tatattgacg a 271

<210> 2957
 <211> 271
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700557026H1

 <400> 2957

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 ctctctgttt ctgaccttcc aatgttgctg tgctactaca tccaaaaggg cgtgttacta 180

accgctccgc cctcgtcttt cgaggatatg atactctctt ttaaactc tctttctatc 240
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tatctgaaag taaacagaaa tgctacatag 270

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<223> Clone ID: 700557028H1

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aagccacaag gttgggcatc aaggcttcgc tgaaagacgt tggagtcgct gttgtggcca 180
ctgccgcgag tgcagtgtg gctagcaacg ccatggccat tgaagtgttg ctgggtggtg 240
atgacggggtc tctggctttc gttcccaa 268

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<223> Clone ID: 700557030H1

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 aatgctccta aaagccctag ctctctctcc tttttgctct ccgtgcgaga aagtagatca 180
 gatgccgttg ttgttcagag caagggtcga tcgtcttttt ctcaaacagc tgctgtgagg 240
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 aaattcagca ccataataag aatgtctgcc actgccaccc caccaccatc cacctccaca 180
 aagccagcaa gcagcaagaa gggcaatatc aaggagaccc tcttgactcc aagattctac 240
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 cctgctccag aagagaaaag ttcagagctt gctacagctg atagcactgt acagaatgca 240
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<223> Clone ID: 700557033H1

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<223> Clone ID: 700557034H1

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atcctatcca cttgcagccc acaagtccta ctactgtgaa gaaggtcagt gttgtttggg 240
atgcctatga agcaacaaag gat 263

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 tgcagtttaa tcttccagt acgtgggtcat atgggaagaa atatggactt actctggaac 180
 aattgtcttt attgtggagc aagaaacctg caacactggc ggggttagaa tcaaagggga 240
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<223> Clone ID: 700557038H1

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 ttacgtggca gaggacatct ctaccacaaa aatcggtccat cacgcagggc aacctggaag 180
 agaaacaata cctctccct tcgtcgtac cgttgatttt gttgcagtta tcgtatgttg 240
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<223> Clone ID: 700557039H1

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caattcagct tgctttggat tgatcagcag caacgcctga agttcaatgt tgatgttggt 180
gagagtgaat ggggccatgg tgctaagctt gatgttctgg aatcaaagat tgcttcagat 240
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<223> Clone ID: 700557040H1
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<223> Clone ID: 700557042H1
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gttcgccgcg gcggcgcggc tgctgtttgc tctgttgctg ggatggcagt ggcagatgag 240
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<223> Clone ID: 700557043H1
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acatgagaaa tctgactgat gttttgctca acaacaacaa tctttctggt cacattccta 240
atgggtttggc acatgtcgct acactctc 268

<210> 2972
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<223> Clone ID: 700557045H1
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aataaatnat gnnagtngac naataaaaana ggagaggnga tgtttgaata anaatanttc 180
cccttcaagt tcttattttt ngngaggaca ggacaatatg aatgtnttat natgctctat 240
caacacatta a 251

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<223> Clone ID: 700557046H1
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aagtttctgt tttttctact tttccatttt tttnnnnnnn nnnnnnnnnn nnnnntctga 180
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<210> 2974
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268

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<223> Clone ID: 700557051H1

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cacattaggc ccttctgtct tcgcaaccgt tagcannnnn nnnnnnnnnn nnnnnnnnnn 180

nnnnnnnnnn nnnnnnnnnc tcattcaaga caggcctgtc tttagctgcc ctgcccccat 240

catcacccca actgtgagag aggatatg 268

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ccaccacgtc accatcatca ccacccctc caacgcccaa atcctccgca aatccctccc 180

ctccaccct ctccctccgc tccacaccgt tcagttcccc tcccatgagg tgggtcttcc 240

cgacggcatc gaaaacatct ccgccgtct 269

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ctgcacttac ttcaccagat ggccagactg cttcagtaga atatgtggtt gataatgtgc 180
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cccatctcct tcaccattta tttccttaca taccttgggg atgtaagatc cgagtgggaag 180
tcctataaga cgcgtcagaa ggaacatgat gagaatgtga agaaggttat caaacgtctc 240
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<223> Clone ID: 700557063H1

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 gggnatnanc gacggattgc cttacattga tgacgantac gcagacccca gagtnacact 180
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252

ctaagccttca gaccgtgaac cgaaaactca ctgcaatgaa caagttgttg atggaggaga 60

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cggcgtcgtc caagaagccc ctctcccacc ctcccttcgc cgtgatgata gcagaggcga 180
ttgcgagtct gaaagagaga accggttcga gccaatcgc gataaccaa tacatcgaag 240
ggaagcacia ggagttgcct gcaacctac 269

<210> 3001
<211> 242
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700557081H1

<400> 3001
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 tccaccgcgc atccatcccg cttncctctc ctcgcttttc tcacaaaaca aaaaaaatta 120
 aaaatttctc cgaagactgt gtattatcgt tatngtncac tgagttaggt tttgctgttc 180
 ttcctagggt tttattgtgt ccaataacaa gaggaggggg aagagaaaca anacaaacaa 240
 aa 242

<210> 3002
 <211> 257
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557082H1

<400> 3002
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 gggtccaggc aactctgctg gcaccgtcac agcctactac ttatcttcaa anggagcaac 120
 atgggatgag attgactttg aattcttggg taatttgagc ggtgagccat acatccttca 180
 caccaacgtg ttcagccaag gcaagggcaa tagggagcaa caattctacc tctggtttga 240
 cccaactgca gatttttc 257

<210> 3003
 <211> 256
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557083H1

<400> 3003
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 tgatgaggag aaggagaagg aagaaaaaaa gaaaaagaag atcaaggaag tgtcacatga 120
 atggtccttg gtgaacaagc agaagcctat ttggatgagg aagcctgagg agatcacaaa 180
 agaggagtat tctgctttct acaagagtct taccaatgac tgggaagagc atttggtgtg 240
 caagcacttc tctggt 256

<210> 3004
 <211> 264
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700557084H1

<400> 3004

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 gcagcagttc ctctttccag ctttggtgtc accaatgcct cttcttctcg cttttccatg 180
 agtgctgact ggatgcctgg ccagcctaga cccccctacc ttgatgggtc agcacctggt 240
 gactttggat tcgacctctt tcgt 264

<210> 3005
 <211> 265
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700557085H1

<400> 3005

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 ggtggttgaa caacttagtg gccaaacccc agtgttttcc aaagcaaggt aactgttcg 180
 ttcctttggg attagaagaa atgagaagat tgcattgctat gtcactgtca gaggtgacaa 240
 ggcaatgcaa cttttggaga gtggt 265

<210> 3006
 <211> 264
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700557086H1

<400> 3006

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 tnaattttnt tactaactga aaaactaatt tgattgttnt gataagtaag tntttncnt 120
 ttagtaattn ctagtgttta ttgaaatgct acttgaaata gtgcctttaa aatattagtt 180

tctaactttt attattttat attttnnnnc ttttnattttt aatatattta tncatttnnn 240
nattatcntt taaaataann tata 264

<210> 3007
<211> 153
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700557087H1

<400> 3007

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ttagattcct tactgacttc tgcctttttt ttttaagtatc tattttatag ttgctaattg 120
atatgtgtat taaggggcct taataataaa tca 153

<210> 3008
<211> 265
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700557088H1

<400> 3008

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gaagatggaa gacattgttg atcacttggc tttcgagcgg aacaagacgc agttcgatgt 120
cgacgagatg aagatcgccg gttctcttca cgcttttgaa gtttctgaca aaatggctcg 180
cctcgtcgcc agcgatccgg cattcagaaa ggatgacaga gttgtgcttg ataggaaggc 240
gttatattatg aacactttga ggaaa 265

<210> 3009
<211> 260
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700557091H1

<400> 3009

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tcctgttcct ggtggtcgtg gctgtctcaa cgtccggcca cattcactct gaagcgatcc 120

tgagactccc gtccgagagc gaggagatct cgcgcgacta ctgcgacagt ggatgctggc 180
 ggtggagacg aacaacgccg ggacgtggaa ccgcgtgccg gcgagttgcg tggacttcgt 240
 ggcggaatac atcaccggag 260

<210> 3010
 <211> 260
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700557092H1

<400> 3010

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 taaagtctat gctttcactc aaatgcttta agtgctgca atctcttttt gtcttatccg 180
 ttgcaaaggg aggctttcct tgetgctggt gttttggctc ttcctgtatc atggatggta 240
 ttcattggggg tgattctcgg 260

<210> 3011
 <211> 261
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700557093H1

<400> 3011

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 cagcacaatg tactgggatg acaagtatgg aacccaaagt gtgtccaatg aggtagttag 120
 tgaaatgaga gaattctcag caaggacaat cagaatttga cctcaaattc tttcttatta 180
 gatgatgac tgagtctggt gtagcggaac tggagaaatg gatagtcaat gcaacagagg 240
 agtatgcagg gacatcctgg c 261

<210> 3012
 <211> 209
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700557094H1

<400> 3012
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 aaatatttta catggcacat cctaatttta cagaattact aggctggctc tcaaggtaga 180
 atatttagtc attttcattt aggatatat 209

<210> 3013
 <211> 264
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700557095H1

<400> 3013
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 accatcacc cttgaggtgga aagctctgac accatcgaca acgtcaaggc caagatccag 120
 gacaaggaag gaatcccccc ggaccagcaa cgtctcattt tcgccggaaa gcaacttgag 180
 gacggccgta cccttgctga ctacaacatt cagaaggaga gtactcttca cctcgtcctc 240
 cgtctccgtg gtggcatgca gatc 264

<210> 3014
 <211> 264
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700557096H1

<400> 3014
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 gtgcttgatt tctttgggct aagggagggt ctgtgcttgg gtgtaacagc tgggtgcttat 120
 gtcctcactc tattagctat gaaatacaaa gaacgagtgc ttggattgat tcttgtttca 180
 cctatttgca aatctccttc atggactgaa tggctttaca acaaggctctt aatgaattta 240
 ttatacttct atggatgtg cggt 264

<210> 3015
 <211> 222

<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700557101H1

<400> 3015

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caaacctcat attttaggct ttcagcgcgt atacatctaa gatttgtagt tgcattatgg 120
tattgctaata gcagatttca caactgaatc cctcattccc actggctctg taaaaggaat 180
tgataatttg acataatgaa tgaacttttg attattgagt ta 222

<210> 3016
<211> 294
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700557102H1

<400> 3016

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gctctttttc ctatattctg atggccctgc tacgtctgcc cactacagaa caggcctgac 120
tcccgtgagc aggtccgctg gctcttagta tggcttttga cttttctgat ccggcatgat 180
aacaactcga acnaacttct attctttcaa gagcaagaga agggcaccga gatcccgcgt 240
aaggtcgttt gcccgttgcc aataggatcg acttgggtag taagattcat tgtg 294

<210> 3017
<211> 163
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700557103H1

<400> 3017

cttaaataga acgttggttag ggattttta ttgattgca tgtttttcag ttttgttttt 60
attttttctg atagtttggt tgtaaacta tttgggcacc cttttgagaa ccattttctt 120
cccaacatat ggagttttca atagacggtc tctattattt gtt 163

<210> 3018
<211> 291

[illegible]

<400> 3018

<210>	3019
<211>	304
<212>	nucleic acid
<213>	Glycine max

<400> 3019

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aggttataac cctagttatg gagctagacc tctaagaaga gccataatgc gacttttggg	120
ggacagcatg gctgagaaga tgcttgccag agagatcaag gagggcgact ctgttatagt	180
ggatgttgat tcnnctggta atgtattgtg ctcaatggta gcagcggagc ccccgaaacc	240
tgccagagac gctcctgtat aatgcgggta atttgctaact actatgtact tatttggtta	300
aacc	304

<210>	3020
<211>	97
<212>	nucleic acid
<213>	Glycine max

<400> 3020

gnaggtgana natnttgaac ttcaagtgaac agannagatt cagggacaga gtggtggagg 60
aaggttataa ccctagttnt ggagctagac ctctacg 97

<210> 3021
 <211> 221
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700557109H1

 <400> 3021

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 atatgtatatt gagttttttaa tttacaagaa nagaactaat gatactctat tacgcgtcac 120
 ataaagatta attgaaactg tgatagtcta aactttgcga tgtttactca ttaacttaac 180
 tatgtccgtc atgtagtaat cattggtaca tttgttgaga a 221

<210> 3022
 <211> 143
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700557110H1

 <400> 3022

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 gaatatttgg tattttccgg ccaccaccgg gcgaactctc cggcggaaaa gtccactttc 120
 tctcagactt gtagtctatt gag 143

<210> 3023
 <211> 87
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700557112H1

 <400> 3023

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 cngcttcatn ggctcgcatc tctgcgg 87

<210> 3024
 <211> 301
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700557116H1

<400> 3024

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ctnctctctt ccccatcctt ggctggcaag gccgtgaagc tgggcccac agcccccga 120
gtcgggaggg tcagcatgag gaagaccgtc accaagcagg ctctccgga agcccatggt 180
acggcccaga ccgcgtcaag tcttggggcc attctctggc gagcccccg cctacctcat 240
ggcgagttcc caggtgatac ggctgggaca tngctgggtt tcggccgacc cagaaacttc 300
g 301

<210> 3025

<211> 296

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557117H1

<400> 3025

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tgtttttgaa gtgttggaat ctatatttgg gttttttcat tctaaaatca aattaatgat 120
aaaattgcgt atagttttgt ttatttagag caacaactag tncgaaattg ctcaaactca 180
aatcaatttg gatctaaatc aattctgagg tattatgaat atttacctat gatcacttaa 240
ttctgaatcg cgtgatgttg tgaaatttat ctgcaggata agcggtgaga tcgtga 296

<210> 3026

<211> 294

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557118H1

<400> 3026

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aatcaaatta cttttttttt cttctaagt aaatcaaat gttagtgaat ataaaaagaa 120
cattactaga aagaaaaaaa atgaatctct tgaattggag ttagagactc gaaatcgggc 180
aaaagcagaa tacctgatca acgaaatctt gaatcatcta tctcaaacca agaaaaagat 240
attgaaaacg ttatgtaggt cagacagtga aaagntagta aggggttaaag aaaa 294

<210> 3027
 <211> 271
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557119H1
 <400> 3027
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 attggaagtg aagaagaagg caatgccagg tcctggctcct caccttatgt atgccatggg 120
 ttctggtttg tgtctcacia gcatcagcaa tgggaggttt agtccccacc acaatcttct 180
 acaccatcaa cgctcttttg gccctgatgt tggttctttc acggagtggc ttggttcact 240
 cttggtggct ctgctcatgc tttggatctg c 271

<210> 3028
 <211> 295
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557120H1
 <400> 3028
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 aagcttaaag gttgcatgtg tggttttgat gtgcatggct gtgatgagtg caccaatgat 120
 ggtgcaagcc gtgtcatgca atgatgtttc tgtgaacctt gcaccgtgcc tatcttacct 180
 gatgcagggt ggaatgttcc agaatcgtgc tgtagcggag tgaggaacat tctgggttct 240
 gccagcacca cttttgacaa acaaaccgtg tgcaaatgtc ttcagcaagc tgcta 295

<210> 3029
 <211> 300
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557122H1
 <400> 3029
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 ggcaattggc aagctgagcc tgggtgttga gccaaagctg tcaccacagc cattctggtt 120

ggatacaggc atattgattg tgctcaagcg tataacaatc aagcagagat tggttctgct 180
 ctttaagaagc ttttgatgag gtgtggtgaa gcgtgaggac ttatggatca tntccaaact 240
 ctggtgttca gatcatgctt cagaagatgt gcccaaattt tggataaaac atgcaggant 300

<210> 3030
 <211> 302
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700557123H1

<400> 3030

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 ntcctatttc ttgagcaacc aagtggctca ccagtttcat tggnttntct cangngcagt 180
 tcaaaatcca agnttataac tgctngtnan ccntcnatt gacagaatcc agtnaccaac 240
 ctgaggctga gccagaattt gaaagtcngc agananattt gantggtact ctgagtggta 300
 cc 302

<210> 3031
 <211> 190
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700557124H1

<400> 3031

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 gcggataagc ccattggtca gcccaaaccg gttgggatta aaaaagcttt ggtgttttac 180
 gcagggaag 190

<210> 3032
 <211> 299
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700557125H1

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gctggttcoct cctcttcatt ctctgccacc ttactacca gaaggagccc ctcttaaaa 120
aactctcaac tctctcattc caagacacta acttctcctc aatgccagaa gacatcttta 180
caaggcctct cacttcataa gccaaaagg gtgtttcaga atccttccta gttgagaaca 240
agaatggttc ctccattgct ggaaggagac ttgagatcaa agcaagaatg ctggggcctc 300
aa 302

<210> 3036
<211> 304
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700557133H1
<400> 3036

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aaataatcag annnnnnnnn nnnnnnnntt gaattcgaaa aatcgtagcg tactttgggtt 120
gcgattgaaa cggtagatg ggaagaggaa aattcaagag caagcccacc ggtcgccgcc 180
agttctccac cccggaagat tgcttgetgg aacctctaac cgtcctcgaa cttttagaca 240
gaaagaagct gagcatgaag aggagcctga ggaagtatct ggggatgatc tggagaagaa 300
tcag 304

<210> 3037
<211> 307
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700557134H1
<400> 3037

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atcaactcaa cctgctctgg tgatttagaa cttctttttg aatattttga atttgagcaa 120
cctcaacaaa gacaacctct ttatgagaag atacaagaac tggtttagagg ccatatacca 180
attgaatctt caacttatgg ggaccacaaa actggattca attaacctac gagatcttca 240
ccctagatct tggttctcag ttgcatggta tccatttacc gcataccaga tggcaatttc 300

gtgcatc

307

<210> 3038

<211> 307

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557135H1

<400> 3038

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acccttttgg gagctactgg aagcccatct gtgtgcaggg ttcattattgc cctcaagttg 120

aaggagggtc aatacaata tgcgaagaa aatttgagga acaagagtga actgcttctc 180

aatccaacc cagttcaca gaagttccag tgtttattca caatgagaag cccatagcag 240

agtctcttgt gattgttgaa tacattgatg agacatggaa gaacaacccc atcttgctt 300

ctgatcc

307

<210> 3039

<211> 300

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557137H1

<400> 3039

ctagttctag atcgcgagca gccacgtggn agtgttttgt ttgtntcctt cggaagcgg 60

gggacactct cgagtgcaca gatcaacgag ctggttctcg ggttggaata aagtgcagaa 120

cggtttctgt ggggtgtgaa gagcccaaac gaagaaatag ccaangcgac gtacttcagc 180

gccgagagcc aagcggancc ttgcagttct taccggaagg gttcgtggag agaacaaaag 240

gaagaggggt tttggttcag tcttgggctc cgcagcctca ggtattgggc catccatcca 300

<210> 3040

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<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557139H1

<400> 3040

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 ccatggaatt attggtcaaa ttttagtttc tatataggta tattggaaaa aactatgatc 180
 gtcaatttct gctcccgag tatctnccta tttttacatg tgtaatgatt agtgtacact 240
 gcattctaga gacataataa gtgaaaggaa atgaaaggna aaagattaaa aacatgaaaa 300
 t 301

<210> 3041
 <211> 293
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557140H1
 <400> 3041

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 tgtgttattt tgcattggctt ccaagcaaga accaaagctc tctttgacct ttctagtgga 120
 caaagaaaga aactgtgtgg ttgtggctga agcaagtgga gacttgatag acatattgtt 180
 cagttttctc nccttccact cggaactatc ataaggcttg tgcgaaaaa gcaagggcac 240
 gacgaagcag acgaaattgg ttgcataaac aatttgtacc aaagcttgga aaa 293

<210> 3042
 <211> 183
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557142H1
 <400> 3042

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 cctctccgaa tgaaaactgg ctatggtgag cgttcttcgg aggtaaaatg cgcaagtttt 180
 agg 183

<210> 3043
 <211> 290

<212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700557144H1

 <400> 3043

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 catatgagat gnaggntgaa taatcaggnc ntgcatgttt tntgtaacgt gtcgtctgta 180
 tgatcncnct acatncttcg anatctcnca gtngtangac tgtcatggca cnataggaat 240
 tctcttggan agtccatcng tagcagaatt ttcnccctg gctagactga 290

<210> 3044
 <211> 297
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700557146H1

 <400> 3044

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 catccaccaa tcaaacaacg ggcagctact cttgttcgtc gccggagact gcaaactcct 120
 ctaaccttcc gaccactccg aaagctgttc actccgacga ggaagtgaac acattagcat 180
 cggctcatcc taagaacgtg cggggcgtcg atttttaagg agacaaggca tcccgtgtac 240
 agaggagtgc ggcggaggaa caacaacaag tgggtctgcg aggttcgtgt tcccaac 297

<210> 3045
 <211> 137
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700557147H1

 <400> 3045

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<210> 3047
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 <223> Clone ID: 700557156H1
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557157H1
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 aatgcttgga aaccccatca acctcagtgg tgccacaagg ccagctccat ctgcctctag 180
 ccctgcctcc ttcaagactg tggctctttc tccaaaaaga aggctgcacc tccaaaaaaa 240
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 tgc 303

<210> 3049
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<212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557159H1
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 aggcagaact taatttctta ctaagaaatt ttttgatttt acattttaa at tggaataatt 180
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<210> 3050
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557160H1
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 gg 122

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 <213> Glycine max
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 tccagggggt cgggcttagc tccgataggc ccctgtggta tccggggcgc caaggcgccc 240
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<210> 3052
 <211> 145
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700557163H1

<400> 3052

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 agaactgggtg tagtataatc gtgca 145

<210> 3053
 <211> 87
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700557165H1

<400> 3053

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<210> 3054
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 <213> Glycine max

<223> Clone ID: 700557167H1

<400> 3054

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 atctgagagg caaagcgggt gttgggtgtg gttccagaat gataagggtgc atggctaacc 180
 ccagaagagt tcatatggtg ccaagcaaatt taggagagag cttctcatat gctctcaccg 240
 ataaagtctt gcagtatgct gttctcccga agcctcctta ggagccgacc gttacctc 298

<210> 3055
 <211> 294
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700557170H1

<400> 3055

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tcacaccgtc ctcgccctcg acgtctacaa cgacaagatc aaacacctcc tcgaaccctc 180
cgattccncc tgggcgggccg cntcacnttc cacagaatat aacaattnag catgatctcg 240
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<210> 3056

<211> 284

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557171H1

<400> 3056

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cctacagttt ctactgttcg cctcaccaag gagctggtat ggtgggaaaa gtcaccgtta 180
attattatat attgtctcct acgtctaagt tctcatatgc ttgttttcct agaagagcct 240
aattcatctt ctgttagggc ctatgggatg aatcaacaat ataa 284

<210> 3057

<211> 293

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557172H1

<400> 3057

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ctccgtccca gtctgtggctc ctccgcaacc caccagcgcc gatgaggtcc gtaccctctg 240
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<210> 3058
 <211> 150
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557174H1
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 aggctaacgg tgttttctga cgggtgttcag 150

<210> 3059
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557175H1
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 cttactgcag agggatgatc caagctatgg acgtagagag tcagtggaat ttctgtttcc 180
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 ctaa 304

<210> 3060
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 <223> Clone ID: 700557176H1
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 gcatcatggt tagcaccaag cctaaccagc ttgtttgcaa ggcacagaag caagaggata 180

ttgatgtcag cccaatctct cgccggtagc tctaaccgtg ctcattggtg ctgctgctgt 240
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 gccaaagaca g 311

<210> 3061
 <211> 204
 <212> nucleic acid
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 <223> Clone ID: 700557177H1
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 tacagataag aaggatcttg aaaacaattt gaaaganaag atagattcca tgggtgtttta 180
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<210> 3062
 <211> 311
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557178H1
 <400> 3062

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 agaagntgcc gatcagaaac atcgccgtcg gaaggcctga agaggcgact caccgccgaca 120
 cggtgaaggc ggctttggct gagttcatct caaccttcat ctctgtgttc gccgggtcag 180
 gtcgggcat cgcctacaac aagctcccga caacggcgct gccaccctg ccgggctcat 240
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<210> 3063
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557179H1

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 tgaaagcaaa gcaaattgcc aattacaaaa ttacatanaa aaattcctca attttggtgg 180
 ttattctctc tttggtgttt cactcttttg agtgctctta gtccaatagc tcttaagggtg 240
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 ccctata 307

<210> 3064
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557181H1

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 ggacctgggg tttcagctcc cagttcatcc ttctttggga gcagcttgaa gaaggttatt 180
 ggctcaaggc cccccaacac aaagatttcc tctggaagct tcaagattgt tgctgtagaa 240
 gagaagaaag agattgaaga gaccagcag accgacaagg acagatggaa ggg 293

<210> 3065
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557186H1

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 tgatcctgcc ctatgcgttc tggcgtttg gatcgtaaaa ttgagtttcc acaccaagc 240
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<210> 3066
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 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700557187H1

 <400> 3066

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 cgtttaaagc aaaccataa cagatatcag catatggaca cattcttggg ggaaattcta 180
 ggcgcagttg tctggctgag agccattcag gtcttaatcc aaaatttgag gcgaaggcag 240
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<210> 3067
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 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700557191H1

 <400> 3067

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<210> 3068
 <211> 304
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700557192H1

 <400> 3068

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 cgtgcacgac ctcathtagt agagagtaca tcaggagacc gtgatctcca aatggtgaaa 180
 attggactca gagtctacg cgcctgttcc tgaccagtta ccgacagttt atcgaaccct 240
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304

<210> 3069
<211> 173
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700557193H1

<400> 3069

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aaagaagttc caatcgtcgg aagcgacgcc gttcgctgga tcgatctctc cgttccatct 120
tcgtccaaca ttgccgccgt cgacggcgctc gccgcccttc ccaccaccga cga 173

<210> 3070
<211> 138
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700557194H1

<400> 3070

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atatctctgt tcctctctca cgtaccttct ccctatcttt cactccactt cttaacacca 120
caaaacagaa caacggcc 138

<210> 3071
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<223> Clone ID: 700557195H1

<400> 3071

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attatcagag gaagtgactt ttgatcgatg ctttacattt atggagggtcc agaacaattg 180
gaggaactgg aggcttgtct agcattatgc atgttattta accgaagaaa agcaaagcta 240
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303

<210> 3072
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<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700557201H1

<400> 3072

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accagataag gggttgatca ggttggtggt gtccatggga gaagcattaa ga 292

<210> 3073
<211> 287
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700557202H1

<400> 3073

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agtcctcaag taccacaacg gccagctctg aagggccgca tcaccgtcaa tctcatctgg 240
tacggcactt caccctgatc caacggtcca taatcgtgga ttcataa 287

<210> 3074
<211> 227
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700557203H1

<400> 3074

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<210> 3075
 <211> 286
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557204H1
 <400> 3075

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 ttccggccac agtacatgat tgggtctggc aacaaaaaga ctgtgaggag tggttttttg 180
 anaggattgt tcgggacaga cctgtgccat tcctggctcg ggactgcaac tcataacata 240
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<210> 3076
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557205H1
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 gtccatgggt ggcttccccca ccaggaagac caacatgaca ttacctccat tgctagcaac 180
 ggtggaagag tgcattgatg caggtgtggc caccagttgg cagaagaagt ttgagatctt 240
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<210> 3077
 <211> 291
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557206H1

<400> 3077

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atgtttgctt gtgttgatca cttggaacaa cattgtgttg ttgttccaca agctgaggct 180
cgagcattct ttgtttttgg tgattcgcta gttgacaatg gcaacaataa ctacctattc 240
accactgctc gtgcgcgactc atatccttaa tggaattgac tatcccactc a 291

<210> 3078

<211> 114

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557207H1

<400> 3078

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ggtggttgga agccagagaa gtctccttga ggtgatggct gagtttccat cagc 114

<210> 3079

<211> 290

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557210H1

<400> 3079

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atatggacat ggatatgaaa ctttttaaca catacagaat ataacgtgat gctttgcagc 120
aattcataga agttgtattg caactgtaat tagattactg taggttaggc aaatgaaaat 180
gtatttagaa ttcccattat tactgctttc ttccaggctc agttttcaca gatgaggcct 240
gttgcaataa cgccttctgt tgcgccccgt atgcctctct accctcctgg 290

<210> 3080

<211> 293

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557211H1

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 ctgttgagc taaaaaggtc acatgctccc ttcaggatgat ctttaaggact tggctcacia 180
 gtgtgttgat gctacaaaaa ttgcaggatt cgccttgcc acctctgccc tcgttgtctc 240
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<210> 3081
 <211> 290
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700557212H1

<400> 3081
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 gcattttctg gtttttgttc ggtgctgttg gtattgttgg tttgttggtt ccatttgatg 180
 ttacataga ggagctagct tagccacttt cggcaaaaga actcacagag atactttaca 240
 caaagaaaga acgcgtttac tgttttagaga ccaaaccaca tcttttgtac 290

<210> 3082
 <211> 273
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700557213H1

<400> 3082
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 gtgtttcttt tcttctcca gcttggaag actgaagtct ctgtcttttt cagggttttg 180
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<210> 3083
 <211> 195
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557215H1
 <400> 3083
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 ggaaaattca gccccaggct gaacggacgg aacctccgcg tgcggtggtg ggcggcggtg 180
 cgccggagga gccgc 195

<210> 3084
 <211> 196
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557216H1
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 aagaagancc catctgggtg cttcaatacg ctcnaggatc tggcaaagct ccatttngcg 180
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<210> 3085
 <211> 135
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557219H1
 <400> 3085
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 ggcgtatttt attcc 135

<210> 3086
 <211> 288

<212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700557220H1

 <400> 3086

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 ttgtgtcaca tctagaacta ttcaaaaagt tgggatgcat tggactcaag atctgtactt 180
 gcccatctat gtataggata caacagcccg gtatctggaa atgctataat taatcttccg 240
 tccagacttt ctaccctgaa aaggttttct gagttgaata tgagtggg 288

<210> 3087
 <211> 288
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700557221H1

 <400> 3087

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 aaaaatcata ggtttgccgt tagctgcagt taccagaagc aggtgtcaac gctgattcta 180
 gctctaacac catagatgtn gtggctgatg tnagaagtga acggatngta gtctggggag 240
 ggaaatgggt ngtgggtccg ccaatatgaa ggnnagaatg tccagggg 288

<210> 3088
 <211> 285
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700557222H1

 <400> 3088

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 atgatgttac atnncnaagt caagtaatta aggagagttg aacgattata ttgaatagtt 120
 aatatgtgca ttttttcact taccgaaca aganaagntc caaccctgga agtgctctcc 180
 acatgtagac gtnttcatat gacgaatttt tggccaatcc tcacggatct ctccaacaca 240

cctngctnta caacttgcac tcgaattcgc aagtttcaaa gactt

285

<210> 3089
<211> 282
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700557223H1

<400> 3089

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cttgctctcc ttgtgagtca taaagaaatg aagatagata aatattaact attaagtggc 120
gtgtgtgaca acatagaagg actagccaac accttattta tgtttattac aacagaaaac 180
gaagagtata tatattttgc atctaaccnc caggaatggt anatgaatta actaataatg 240
acaatatgca ttatattcat gtaaggaacc atactaaaat ct 282

<210> 3090
<211> 192
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700557224H1

<400> 3090

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tcaaccctca gccatggtgt tttctttcaa ccaaagcttc tgcctttctt ctctgcttct 120
ccttctcttc atggccctct gtgtttcttc tcttctgaca ccgttttcaa ctctcaagca 180
gogcataccg ct 192

<210> 3091
<211> 287
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700557225H1

<400> 3091

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ttgtttctga ctaacaattc tctaagtgga ccattcctga ttggatactg agcataaaac 180
 agcaaattga tttatctttg aacaatttca caaagacttc tgcanataat tgccaaaggc 240
 cggatctgaa ttagcttcaa gcctctctcg cacagcaagc acttcat 287

<210> 3092
 <211> 291
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557226H1
 <400> 3092

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 tttattctgc agctgattac gacactgtgt gggangtttt ataccctctg atttctcctc 180
 taccatttct ccactttctt cctctaactc taagaaggat ctctatttca ctctctccga 240
 ccgtcccacc atcatcgacc agggtagaaa gagctttcaa ttggaaaagc g 291

<210> 3093
 <211> 280
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557227H1
 <400> 3093

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 aagtagaagc agcaaaaccc aatcaaagac cctcactctc accccacact tcacgtaagt 120
 gaaaacgatt ttgttgttgc agcanaaatg tgttggaagc caaagaaaat gctgggtcca 180
 ttaaaacaac agcaaccgat actgctctag aaaactttaa gcagaagtgg gattgtttag 240
 agtagctgtg atcaagccga ggagtttgtg gagtctgtga 280

<210> 3094
 <211> 293
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557229H1

<400> 3094
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 aatcagaacc tggagaatat gattggtaca gtcatttgtc agtatggaca agttacacca 120
 aaattatcna acagtcaatg tggactctac ctgttctggg gttatctcca accttaagtc 180
 tgagggacat ggtaatgttt tcacttcttt gttctatggc acaatctggt attcacccta 240
 tgtccgagtc ccaaaactgt ctgccagaat gagagtctcc ctttcccaca agt 293

<210> 3095
 <211> 293
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700557230H1

<400> 3095
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 tacttcccca ggggtgttac aaaacttcaa gtttgggggc agtttctgtg ggatggaata 120
 ggagaacctt tccctctttg agatcctccc gtttacgatt tgtgcagtca aggcacaacc 180
 ggagacagtg cagaaggtct gcgatattgt gaggaacaa ttgctctgcc tgctgaatct 240
 gagcttacct cagacaccaa attttcagca ttggtgctga ttccttgaca ngg 293

<210> 3096
 <211> 206
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700557232H1

<400> 3096
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 tgaagtgaat acagatggga agctgt 206

<210> 3097
 <211> 196

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tgaccaggga catgattcac agatacagtc gcnacttggtg ctccct 285

<210> 3103
<211> 283
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700557242H1

<400> 3103

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ttacttgctc ttattttgat aattgataca attaattctca ttctagggtt caaaattggg 120
attcggtatg atgggcctta ctggagcgta aatgaccctc tccaagaaca ggatggcata 180
tctgttatca agtatgcgtt cagtaaggga atcacatttt ttgatactgc ggatgtttat 240
ggagccaatg ctaatgaact ttggttggaagggttgaag cag 283

<210> 3104
<211> 231
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700557246H1

<400> 3104

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annatataaa tatataatga aaaattattg aggagatggt agtaattaag tatgatatga 120
tataattaat taatgaacat ggtagtagat ctttgataca tgggtggggtt ggtgggggtt 180
taatccaatg taaaaatggg taaattaaat tgaagttcct ctagttatgc c 231

<210> 3105
<211> 285
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700557248H1

<400> 3105

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 caggcagtgn tcantttctct gcgcctcctg acttattcac tcccaantcc agaaccatca 180
 tcgtcnctat ggcacaagca cagcncctat tttcactntc aatcctcgtt tctncctgct 240
 tntcnccca ttctccgaag gcgntttctt tcccttcnat ngtcg 285

<210> 3106
 <211> 273
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557249H1
 <400> 3106

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 aagtggaaat gcaggagagc agcaaaactg atcaggcaga gataccgtga agccgcagac 180
 ttgatcaaga agggaaagat gtgtgtcttc ttcataacg atcttgatgc aggagtgggc 240
 gtcttggtgg aaccacccaa tacatgtcaa caa 273

<210> 3107
 <211> 71
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557250H1
 <400> 3107

gcagnatgtt gccagattca acaggcattc cgcagcaact tgaaccttca gaatttccn 60
 ccacaacatc a 71

<210> 3108
 <211> 281
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557251H1
 <400> 3108

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cagaactggt tggatgaacaa gataaggaga aactgcaggt attcaaagga gacactagga 120
 agcagggaga tttggatcca tccatgttta ggggtgcaca cacgtgattt gctgcacagg 180
 aacaacagct tttccttcaa ggcgggtggga tgatgatata caccagaaag agttgattgg 240
 atgggagtaa agatctagta tctgcatgcc ttccccaggt g 281

<210> 3109
 <211> 125
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557253H1
 <400> 3109

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 ttttnntttt attgatgaat tgnttntttc aaaangtttn gcttgncttn aatttgtgcc 120
 anaaa 125

<210> 3110
 <211> 283
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557256H1
 <400> 3110

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 ttctagggct tctcatcttg tgtgcttgaa agcagtccca gttacaagaa ctgaaaacct 120
 tatgcaaggc caagttcacc ttactctggg aacaaccaca aggttatcac ggagagaaac 180
 ttgcactggg aggaaccaac cattaccgag aggatggaat tggaatccac gactattccc 240
 catcagggcc taatggctgt cacactccaa gagcaccata gtg 283

<210> 3111
 <211> 280
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557257H1
 <400> 3111

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 ttatgggggt gttgttcggc atcgattga tggctggatg ggcgcgcgcatg atgaagtacc 120
 gaagtgccaa acgaattgca aaggcagcga cattaaactc cttggatccc ttaatagaga 180
 tgatttgnag aaaatttgtg gtgataattg cctgagtgga tatctttcct gtatatgaac 240
 aggtgaaatg gctaaacaag aaactgacca aactttggcc 280

<210> 3112
 <211> 90
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557259H1
 <400> 3112

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 ctgttaactc ccattcctag gtaccatctg 90

<210> 3113
 <211> 285
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557261H1
 <400> 3113

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 tgagtccacc aaagtgattg acactttcca aaaccaagcc ancaaacactg aaganggaat 120
 taccatcttt gttcctaagg acagtgcctt catgctgnan agaaaactgt cctatccanc 180
 ctcacctctg accagnnaaa gcagtgatcc tcttccatgc ctgccacatt tctattcnct 240
 gctgagttca caagcctagc caaaccagct cctactccca cattt 285

<210> 3114
 <211> 224
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557265H1
 <400> 3114

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 ttgcgaatcc caccactggg tgtcagaaga agctggagat cgatgatgac ctgaagctac 120
 gagcattttg ggacaagagg atctcacaga ggttggttgg gatgctctgg gtgaggattc 180
 aaaggctatg ttttcaaaat tactggaggt tgcgacaagc aagg 224

<210> 3115
 <211> 281
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557266H1
 <400> 3115

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 attcatcccc agcaatggct tgtgcattgc aagcaacctt agcagccaac gcctatgtct 120
 tttcttccag gagattctcc ttgaagtcca aaagaacagt aagagaaggt tttctttggt 180
 cactgttaga gttgattctg atgaatctga ttgcaatgag gaagaatgtg ccccgataa 240
 ggaagtaggg aaggtcagt tggaatgggt agctggggag a 281

<210> 3116
 <211> 226
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557267H1
 <400> 3116

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 ctttaaccgt tggagctaga ggtccaatcc tgctggagga ttatcatctt gtggagaagc 180
 ttgcaaattt tgatagggaa cgtatcccag aacgtgttgt ccatgc 226

<210> 3117
 <211> 278
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557268H1

<400> 3117
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ggttaggcta ttgaatttta aataattaca gataaaataa tcgatatgctt tgatttttaa 120
aattaatcat aatcatcggt taggttnaac ataatactaa ttcgctaatt ttttaactgc 180
gcctcagagt atcataacat attctattaa attaataagc ggtgatgtaa taatattaat 240
atgtagtttt gggcaatcnt tattgggcag aagagcta 278

<210> 3118
<211> 198
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700557269H1

<400> 3118
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agattcagct cctgggaacc tgctcacagg atttggtttt ttaacccat attggctcat 120
agatattgcc aatgctgcta tcgtaatcac cttgtgggag cataccaagt ttatgcccag 180
ccactctttg ctttgtgg 198

<210> 3119
<211> 277
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700557271H1

<400> 3119
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aggtcttctt cgacatgacc atcggcggtc aacctgccgg ccgcatcgtg atggagctct 120
acgccgacgt gactccgagc accgccagaa cttccgcgcg ctctgcaccg gcgagaaggg 180
cgccggggcg agcggcaagc cctccatta caaaggctcg tcttccaccg cgtgatcccc 240
aattcatgtg ccagggcggc gattcaccgc cggaaag 277

<210> 3120
<211> 277

<212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700557272H1

<400> 3120

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 cgccaacctt ctgcattcagt tgtgagtga acccaccac cccattcagg ctcaccatca 180
 gagctgggtt tatgctgatg agctcgtaa gaccgcgaaa acagtgggtt accagggagg 240
 ggtattttgg ccatggatga gtccattgta cctgtgg 277

<210> 3121
 <211> 281
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700557273H1

<400> 3121

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 tctctccttc gaacgttcag tgattctgac ttgaccgaat gctgttgagg ttgaaatctc 180
 agaggctttg ggatttcggt gtgagaaaat agggcttcga cgaattcctt gcttcccttc 240
 ggactccttc tacgccattt ggtcccttcc ttggccgtat t 281

<210> 3122
 <211> 281
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700557274H1

<400> 3122

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 agctcgaaga aaactgggaa gggaaaggac ccggaaaggg tgggaaccgc ttttggaaat 180
 ccattgggct tggatttaag actcccaggg aagccatcga aggaacctac attgacaaga 240

agtgcacctt catggcatgt ttccatccgt ggccgtatct t 281

<210> 3123
<211> 282
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700557275H1

<400> 3123

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ttggctgcct cgttttttta acaaccttcc accaaaatgg ctgtgnntcg cgataactgg 120
gacttatggc aaaacgacca ccacctgttg attaaaagtt tgtatgaggg gatggggctg 180
cgcaccggta tgttgaactc gggtgcttca tatgtacatg gggataataa gatggacctg 240
ggtaacatgg tgccggattc tgttttggtt cagaattgat gg 282

<210> 3124
<211> 285
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700557276H1

<400> 3124

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cttcagtatg tgatctatct tttttcaggg tgcattaata ataaacatat tgatgttatg 180
atataagaag aaaaatggag catgttttgg agaaaagatt tcctcttaat tcagaagatt 240
acaagttatc atgaagaagt tggatgaagg gttagtgcct ccgta 285

<210> 3125
<211> 284
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700557279H1

<400> 3125

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agcagatatac gaggaggaaa ctccaccctc gggtttactaa ctctcccttg ttgtcaccca 120
tcgtagcaaa aaaagatgat gctggctcta tggcagtcag tccttaagag cacttgcat 180
aattgganmt gggtttgtcag gtcttttcag tttttcaaca atggcagcag ctgatgaagc 240
tgaacagggt ggagtcctaa gctatccagg ctcaaacagg attc 284

<210> 3126
<211> 295
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700557280H1
<400> 3126

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tgggcttctt ccaactgcaa tgcactcaaa ctctcttctg tctccagacc ttcattctctt 120
ggcctcctat ttctntctcc cagatgctta tcttcgtctt gggatggact taagtacgtg 180
attcacatga atgggtcaag cacgaangct ccagtcgcca ccattgggtat catgacnatg 240
cccaggacca tcttgngag gttgtgtatg tggagctgcc agaaccagggt ggcac 295

<210> 3127
<211> 276
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700557281H1
<400> 3127

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cgtcgagatc aacaatctcg ctgcgtttgc tgtagaggaa caaaacaaa gagagaattc 120
agttctggag tttgtgctgg tgattgtgca aagcagcaag tggttgctgg agtgaattac 180
tacataacat tgggaagcaa agatgggtgag ttaaaaatga gtataaagcg aagggtttggg 240
agagggattc ccagagttgc tagaatcagc caacat 276

<210> 3128
<211> 279
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700557282H1

<400> 3128

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ctgataacct cntgnctaca ttttcaatgg ctaataagtt tcccagtgcc gtatccgcat 120
ttcctcaaag cttgttacag agcagtaaca ccgttgctca gtcacctcag tggaagaatc 180
tgtaagggca acgaccattc acagtcgccc ccatccatgg cttcaacaac acgccctcat 240
cagtcaaaaa cttccanagc agcaggctcg ttcccagca 279

<210> 3129

<211> 279

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557283H1

<400> 3129

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tccaacaagg ttattgccac catcatggtg ctttctctcc ttgcctactc aacatcattc 120
accaatgcat gtggcacatg ccaccaaanan nnnnnnnnnn nnnnnnnnnn nnatcaggaa 180
agtgccttaa ggacacattg aagctagggg tgtgtgcaga tattctaggt cttgttactg 240
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<210> 3130

<211> 279

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557284H1

<400> 3130

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aggttcttcg cgacaacatt cagggttacg aaacctgcga ttcgtagggt agcgagaaga 180
ggtggcgtga agaggatcag tggtttgatc tacgaggaaa ccagaggggt tctgaagata 240
ttcttgagga acgtgattcg cgatgctgtg acttataacc 279

<210> 3131
 <211> 281
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557285H1
 <400> 3131
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 cagctgagaa cggtggctgc aactgggatc aaactgcact tgcgacccat gcagctgcaa 180
 gtgagatcaa catgccataa ccttcaaaca caacacatac ttattnattt attgatacat 240
 gtattacagc tatcaataaa taataagtat gtgttgtgtt t 281

<210> 3132
 <211> 280
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557286H1
 <400> 3132
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 ccaa atgttg cagagcctgc caaggggggtg tacaagatga gcctcttttg gtttctagtt 180
 ttctctgcac atcttgcact agcatcctct ctngtnga at ttcaagatna atgataatcc 240
 aaggcaaaag caagagggca tgccagctaa atttgtacat 280

<210> 3133
 <211> 278
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557288H1
 <400> 3133
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 caagaaaaac actcttagta tttatatata tccgagaaag ggagagaaag aagaagcagc 120

aatagacact actcttaggt atttatctta tcattaccgt tattatcatg agcactgaaa 180
 aggagaaaaa nnnnnnnnnn nnnnnnnnnn nnettcactt ccgtcgagtc tgcaaggggtg 240
 tcatggcctc gagaagattc ttctccgcga atcgcgtg 278

<210> 3134
 <211> 242
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557289H1
 <400> 3134

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<210> 3152
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<223> Clone ID: 700557315H1

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gcagtttcac tggctattgc tcgtgatggt gcaagtgggtg ggggtggcg aacagtcata 240
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<223> Clone ID: 700557316H1

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<223> Clone ID: 700557318H1

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<223> Clone ID: 700557319H1

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1145

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282

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taaggttgct attgaaccaa aaactaagct gatgttgaca agatggcaac tggtttaatc 180

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<223> Clone ID: 700557333H1

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<223> Clone ID: 700557334H1

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<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700557336H1

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<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557339H1

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 aaccgttgag accgtncacn cttcacagtg tcccttgagg ggataaatca tgctgatgag 180
 gtgactagtg atttaagagt gatcaataag gaaccctcgg aaataccagg gaaagtttgt 240
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<210> 3171

<211> 276

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557340H1

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 attccgttgc caccaaagcc tctcgaggat caacgttgta catcgacgtg gtccacgccg 180
 gctcggagga ggacaccaag ccgcttatcg gctcggctcg gctcaagctg gtggacattc 240
 tcgacgacgt tggaatcggc gagcgcgtga ccgcacgctc tcgtga 286

<210> 3174
 <211> 282
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557346H1
 <400> 3174
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 tgcggaaaga acaagcgcac ctccaagggg aagaaggggtg gcaagaagaa ggcagctgat 120

ccctttgccca agaaggattg gtatgacata aggttccttc tgtttttcaa gtgaaaaatg 180
 ttggcaaaac cctcgtntct cgtactcagg gtaccaagat tgcttctgaa ggactcaagc 240
 atagatgttt gaggtctcct tggctgatct tcaaggggat ga 282

<210> 3175
 <211> 273
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557347H1
 <400> 3175

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 tagttttgga aaccaagaat tcntgaagaa ggnnagcatc aacaagcagt tctgaaaatg 120
 gagatcacca atgtcagtng tatgaggcta ttgcaaagca gaagttgccca aagatggcgt 180
 ttgactacta cgcactctggg gcagaggacc agtggactct gcaagagaac agaaatgcct 240
 tttccagaat tttgtttcgg ccacgtattc tta 273

<210> 3176
 <211> 233
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557348H1
 <400> 3176

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 aatagagatt tcttagcatc caggatctgt taatttatgg tgccttttcc acacctagtc 180
 tcacgtgcag cataatttat tagtaatttg gtacaagtag aatctagatc gcg 233

<210> 3177
 <211> 263
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557349H1
 <400> 3177

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 gattaagatt ggctaatagca gacaggcatg ctgggaatat attgatcaga aaggaggcag 180
 atggccagat aaagctcatt cctattgatc atggctattg tctaccagat aaatttgaag 240
 attgctcatt gatggcttta ctg 263

<210> 3178
 <211> 143
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557350H1
 <400> 3178

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 atggcgagcg ctgaaacctt cgctttccag gctgagatca accngcttct aagtctcatc 120
 atcaacacat tccacacaac ata 143

<210> 3179
 <211> 265
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557357H1
 <400> 3179

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 aaaaaaaaga agaacaaatc tttgtttaat tttttgaagg aggttgaaga aagcaaaagg 120
 ttgttgTTTT gttttaagtt ctttgaaatg gttttcatgt ctgagatatt attgttcctt 180
 gaaaaaaaaa ttgaggaagg agagtgggag aaggagngat aagaaganga ggagaagaat 240
 acctaccag caagcaggnt tagag 265

<210> 3180
 <211> 117
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557358H1

<400> 3180
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 ccttcataaa atcagagtat ttatgctgagt attanaaaaa aaancacaca nangggg 117

<210> 3181
 <211> 273
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557360H1

<400> 3181
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 tngcncctgt gtcctntcac cgcacaanct tcgaaccaa cntccgccgt tggatntcca 120
 tcgcttcaac actggaacgc accaatnggn gtgngancgt tctcaacgtc ttnncctgcg 180
 cgacggcgan atgtgnaacg tngctgnntt gntccgcgat tncgacgctc ctggctttca 240
 agaaagcagc ggagtcgatg gagaagctca tgg 273

<210> 3182
 <211> 279
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557361H1

<400> 3182
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 catgaatcgc attgatgaat atattgtttt ccagcctctg gattccgaac agatcagcan 120
 aatagtggag ctccagatgg agcgcgtgaaa aacaggctca agcagaagaa aattgatctt 180
 cattacacag aaaaagctgt taaacttctt ggtgtactgg gttttgatcc aaattttgga 240
 gctagaccag ttaaaaagagt gatacagcat tgggtgaaa 279

<210> 3183
 <211> 278
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557362H1

<400> 3186
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 ccgactttgt taattccgtt ggggggcttg tgaggaacct gaagcagaac aagctcatta 120
 ctgtggcttc cttcgcaaca agcgctgatg cgccaacaac aaattctaca atctcttgta 180
 cgcagaatat gctactttct ttgacactgt ggtgtttctg agctgggtag ggtttactcc 240
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<210> 3187
 <211> 252
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557366H1

<400> 3187
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 atcgaccaga tcganaantc tgcnngtcac gcgcctcca ggccttccan ntcgacgccc 180
 aattcctggg gatnaatgtg cagncntant cnggctcntn nggnaattcg cngcctacac 240
 cgccgtcttc aa 252

<210> 3188
 <211> 92
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557367H1

<400> 3188
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 ccagccatgg cagtttnttc tgnatctgct tc 92

<210> 3189
 <211> 120
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557369H1

<400> 3189

agatggatca gtntttgtgg aggggtgnnn cttttgntta ngatccttgt ttcctttgga 60
gtgttctgac tacttgnagn attcttacag agcacaccgt annnctctn catnaagtta 120

<210> 3190

<211> 201

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557370H1

<400> 3190

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caacttgctc actgtcattg ccgggtctgc tgagagagct ccaactctct aaatcattca 120
tcttcagttt ttctccaatc ttaatgtaca atacatatca ctgagatatt attaaggcat 180
tttgctttgt tccttggaat c 201

<210> 3191

<211> 116

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557371H1

<400> 3191

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tcaaagaaca aggttttcaa gtccacatt ggaatgggg antacaacac tcatgt 116

<210> 3192

<211> 286

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557372H1

<400> 3192

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caccaaccgg tcggcagcga cgcagaggag atcagtggtg gtgaatgcag ccagcaaata 120
tgttgaaggg gaaaaggtca gttatgacac aatggtagca atgcaaggag gaacttgatg 180

ttcgccacgg cggcggctgc tgtttgcctt tttgctgcag ggatggcatt ggcagatgag 240
cctaaaccag gaacctcaga agccaagaaa aagtatgccc cggttt 286

<210> 3193
<211> 283
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700557374H1

<400> 3193

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cttcttcgct ttgccgccgt gcaatctcga ccattctcacc gaaacattca acatgtcctt 120
ctacatgacc tatcttgcaa gatggcngac tatttccacg ttgccgaagg ccttggaat 180
cgaatcatgg gttacattat gggtaaagtt gaggggcaag gagaatcttg gcatggccat 240
gtaactgcgg tgaccgttgc tccagagtat cgaaggcagc agt 283

<210> 3194
<211> 281
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700557375H1

<400> 3194

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gcatagcctc tcgcaacctc aaatctacac aatgcatttc taaggctttt ngcttggaac 120
ctgctgcagc taaactcact tgctccttca ncctgatctc aaagaatttg ctcaaaaatg 180
tgtcgacgct actaaaattg caggattcgc ccttgccacc tntgctctcg ttgtttctgg 240
agcaagtgcga gaagggttgc caaaaaggct aaccttcgac g 281

<210> 3195
<211> 283
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700557377H1

<400> 3195

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cctaaaatta	gttgagggtt	aaggatcaca	cactgttcag	aacctttacg	attcacttga	120
tgtccatggt	ggccaatcgg	ttctgtgtta	gtaaccttaa	accagcctcc	aaaggactac	180
tatattgttg	cctcaacaag	atttacagag	acacctctca	ctacaactgc	tgtactacac	240
tatgcaaact	cttttttctc	tgcatgggga	cccggtg			276

aaatttattg acgaattgga acaactggag ggaaaaaatg aagcagagaa ttatcaaatt	60
cgttctagaa aagccaaacg tgtagtaatt ttgactaata aatctaaatt ttttaagaag	120
tacgatactt ataatcctac agagatactg ataacgctga aaaaaaaaaa aatgaattgg	180
ctttaatacg ttattcccaa caatcggntt ttcggngaga cataatcaa ggatctatan	240
gtgcncaaag gngtaaaaca gttacttggg attttt	276

1158

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557381H1

<400> 3198

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gatgccggtg tgggactcga cggaggggct cgggcagcac ttctgtggc tcgaaaagag 120
catgaagaat ggctcgcgcg ctaacaactc aacatgaagc tcggtgttca caccggcacc 180
catgtcgacg cgcccgggtca cttttacgac aattantacg acgccgggctt cgatgttgac 240
tcacgcacct aacactcctc aatggccttg cacttttggg tgatgttcca 290

<210> 3199

<211> 287

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557382H1

<400> 3199

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gcagctatac angtggaatg naagtggatg tttccctcca ganntccgaa tatgganggt 120
aggtgagnaa caagataant ctatactcca accgatgcac taagtgggaa gtgttccaaa 180
aatgtgtcat tgccattcaa cagccaattg ctctcttagg ggtcagtgtt acattggata 240
atanagataa tagtcaggat gctgggaaga ctggnaagtt gnaattt 287

<210> 3200

<211> 283

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557383H1

<400> 3200

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gaaagaaggg aggattgttg gtgatcgatc atcgatcatc gatcatcgat catngatggc 120
gtctgctagc cntggaagtn gtgnggtggc agttccaggt ctgttaatgg tgcangtcag 180
gggttcttcc agttccgctc attggctggc aganagacgc tgagatgtct ttgagagacc 240

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283

<210> 3201
<211> 280
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700557384H1

<400> 3201

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ggaaggccac attacgcctt tccgtcttcg caacccttaa cactccttct tctccttctt 120
cttcaccttc cttccctctt ctcatnaaga caggcctgtt tttgctgccc ctgcccccat 180
catcacccca actgtgagag aggatatggc aaaggaatac gagaaagcta ttgaagaatt 240
cagaattgtt gagggagaag agtgaatcaa agcgacantg 280

<210> 3202
<211> 280
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700557385H1

<400> 3202

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cgccctgctg cttcaatgcc ggttccctct actacaagtc gtctttgcct gatgaagctg 120
tttacgacaa ggagcgaccc ggagtncatg gccgaagcag ttgaatgctc cacttgaggt 180
cgtggatcct gagattgctg atattattga gcttgagaaa gctaggcaat ggaaggggct 240
agaatgatac cgtcagacaa tttcacctct gtgtctgtga 280

<210> 3203
<211> 281
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700557386H1

<400> 3203

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actcgtgacc agatgtgaaa ttggtgacag tctggaagaa ttcctcacia aagcaacacc 120
agataagggg ttgatcaggt tgttgtgtcc atgggagaag cattaagaac aatttccttc 180
aaagtgaaga cggtctcttg tgggtgaaca caatgtgtta atacttttgg ggacgagcag 240
cttgcaagtgg atttgctagc taatcagctt ctttttgagg c 281

<210> 3204
<211> 283
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700557388H1

<400> 3204

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taatggattc gagtacaaca acctccancg acagtgaagt agcctatgac atccccacca 120
tcctcaaagt ctacaaaaac ggtcgctaga gaggctagaa ggcgtcgagg ttgctcctcc 180
gggtcncgat cctgaaacca acgtggaatc gaaagacatc gtaatctccg aaaaagacgg 240
cttatccgcc aggttttaca ttccccaaac cattacgcgc cgc 283

<210> 3205
<211> 243
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700557389H1

<400> 3205

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aggtcattga gcgcttgctc aaaatctcag cttgtaaant acggctgtgg atagtggaat 180
cagagcactg caatttctgg ggctggatga gcagagaagg acctctgaat ctgatggttt 240
tgt 243

<210> 3206
<211> 265
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700557390H1

<400> 3206

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 atccatccac tgtccggaag ccgctatgag aaaagctcgt gtctcagttc gtgcccgatc 180
 agaagcaccc atgatcagtg atgggtgcca atggcgaaaa tatggacaaa agatggctaa 240
 gggaaaccct tgcctcagag catac 265

<210> 3207

<211> 278

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557391H1

<400> 3207

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 tgcattctccg cctacgacaa cngtctgagc gccgccccta ncacaagaac tgcggctgcg 180
 ctctgcacag caagtcgagg aggaacagca gagcgtgcac gcacaagttg ccgaaatgca 240
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<210> 3208

<211> 277

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557392H1

<400> 3208

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<210> 3209
 <211> 273
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700557394H1

 <400> 3209

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<210> 3210
 <211> 275
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700557395H1

 <400> 3210

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 gcacctccga ctccagcggc attctcatca tccccggagc ccaactcctc cgtggatgca 180
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<210> 3211
 <211> 270
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700557396H1

 <400> 3211

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 aagagccttc ctttgcggtt tnncttcttg agaagaagaa ggctctttgt tgttgttgat 120

tttgaagaag gaaagaagga ggaagaaaat gatgaggcta tggatttcta tctgcaattg 180
 gtggaacttt ttgtgagttc atgggtcata tgctttatgg gttttacana ttagctccgc 240
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<210> 3212
 <211> 292
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557407H1
 <400> 3212

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 gacagcatgg ctgagaagat gcttgccaga gagatcaagg agggcgactc tggtatagtg 180
 gatgttgatn nnnnnggtaa tgtgattgtg ctcaatggta gcagcggagc ccccgaaatcc 240
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<210> 3213
 <211> 291
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557408H1
 <400> 3213

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 gacagcatgg ctgagaagat gcttgccaga gagatcaagg agggcgactc tggtatagtg 180
 gatgttgatt cnnntngtaa tgtgattgtg ctcaatggta gcagcggacc cccgaatcct 240
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<210> 3214
 <211> 295
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557409H1

<400> 3214
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 nnnnnnnnnn nnnnnntgg cactgcctcc aatcccttcg agtcgatttg gtcgcgagg 180
 aaattcgagg tgctagggca gaagcngaag ggcgaggcac ggcgcatggg gctggcgcg 240
 tccctggcga tccagaagcg caacganacg ctcctcaagg agtaccacca gagcg 295

<210> 3215
 <211> 293
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557410H1

<400> 3215
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 ttaggaatgc atcccaaaga tctctagett ctcacttgaa ttcaccatgt tccatgggat 180
 acccatcttt gtcattcttt aactcaaggt acatgtctcc acacattcca agtccaagca 240
 agcttcagta agctatatgg gttcatccag tcatcaacaa catcctctcc gtt 293

<210> 3216
 <211> 294
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557411H1

<400> 3216
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 catcgtctgn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn gtgtcctccg acctgaaggc 180
 gttctccggc gcgtggccc tctcctccat cctcctctcc gccctctcc ccgcggcgcg 240
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<210> 3217
 <211> 295
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700557413H1

 <400> 3217

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 agactactac tacagatgac aaaaggcttc aaagcaccct gaagaggata gngtgaatg 180
 ctatccctgc aattgaagaa gtcaacatct ttaaggatga aatagttatc cagtttttaa 240
 accccaaagt acaagcatct attgctgcca acnttgggtt gttagtgggtt cacca 295

<210> 3218
 <211> 294
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700557414H1

 <400> 3218

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 aaagaccact aatgagacca ttacaaaggc agaaagtaca aaaacagaag agcacttggt 120
 gcgatttgag gaagcctttg aaatgtgagg cacccttctg agcaagaaaa ggtctttcaa 180
 cccaagggtg gagcctgctt ttgtaacttg ttgagaaatc ttaaatttta aactgctagg 240
 agatcattcc tttgtttttt ttttttngcc tccatctctt tttngggcca attg 294

<210> 3219
 <211> 287
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700557415H1

 <400> 3219

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 nnnnnnnnnn nnnnnnnnt gactctgggt atggctgttt ggagtgtggt tcttcacttc 180

agtgctgctn tcagtagctt gagacctttg gagaaaacca tttgcactgc cccttcttga 240
aggcgtcatc tgggttgctg ctataagcca ttctgcatcc taacana 287

<210> 3220
<211> 122
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700557416H1

<400> 3220

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tg 122

<210> 3221
<211> 253
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700557417H1

<400> 3221

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actttgtaag gnnagatc aaggagtggg tgaactggct gcgcaatgat ataggttttg 120
atggatggcg tcttgacttt gttagaggtt tctctggtac atatgtaaaa gantatattg 180
aagcatcaac tcctgtattt gccattggag atattgggac agttgggcta tgaacatgga 240
gttgtgttac aac 253

<210> 3222
<211> 223
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700557418H1

<400> 3222

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aagttgtgga acatgtcctt catgtttctg attgtaatat atattgccac aacataatgt 120

gaattgttgg tttcttcttg tacatcaata tctatagtag tccaaaanaa aggngcngca 180
taccgcgcgg atatcgacgn tcggnaactcc aggncttaac gga 223

<210> 3223
<211> 298
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700557419H1

<400> 3223

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agtgactact gatcgccgac agcnancttt tnnctgttaa tgnngacctc cntngcagtn 120
gccggcgctt tgacggngca cgatcgccgg gttctgacgg cgggtgaacgc cggagcctcg 180
agcctgtcgt tagccgggtc cagcttcatt gtagtgtgcn acctcctctt caaggagctc 240
cgcaagttct ccttcaagct cgtcttctac ctgctctctt ctgatatact ttgcagtc 298

<210> 3224
<211> 298
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700557420H1

<400> 3224

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gatgagaatt tgtggagcag caatcagcag cagctacacc accacgnccc aattcgcttt 120
tagtggttgc ttcctcttcc ctctccagtc ctgccaaaac caagttcctg cctcacttt 180
ctagattttc tgtcaagcgt ctctgcttcc tttcccaaac tcgtccgcac atttccgtga 240
acaagccctc catgaacctg ttgaacagac tcgggtttgg cagcgcaaga gcaccaga 298

<210> 3225
<211> 293
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700557421H1

<400> 3225

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 ccatggcaca tgcagctatc acgtgcgggc aggtgacgaa tagcctgac aattgcatcg 180
 gttacctcca gaacggagga acgccgccgt cgggatgctg caacggagtg aagagcctca 240
 atgccgccgc caagaccacc gccgaccgcc agacggcgtg caatgcctca agt 293

<210> 3226
 <211> 291
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557422H1
 <400> 3226

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 acatttcgct gccagtgccc gccccgccac tccccaccgc aaattccgcg tcgtggccgg 120
 aaaattcagc cccaggctga acggccggaa cctccgcgtg gcggtggnng gcggcggtcc 180
 cgccggagga gccgccgcgg agacgctggc gaagggcggc gtggagacgt tcctgatcga 240
 gcgaaaaatg gacaatgcaa gccgtgcggc ggcgccatcc cgctgtgcat g 291

<210> 3227
 <211> 291
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557423H1
 <400> 3227

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 aaatatgtct gcttgttctt gtttgatttg tttattttta ctcgaggaaa caaatcatat 180
 aggaagaggg ttttgggttg gggggagcgc caggggacat gctcgagatc ccttgtggct 240
 cactattgga acataagctt aaattaaatt gaagttttta attaattggtt t 291

<210> 3228
 <211> 292

<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700557424H1

<400> 3228

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tcttcttttc tcggccgagt cctcttcgcc tctgttttca tctctccgc ttaccaagag 120
ttcgttcata ttcttaact gttccttttc tctgcaattt tgaatcatgc atggctattg 180
tgttttgtgc tagcagtaat ttattgtttt taactgagtt tatctgctga gttggctgtt 240
gttggtggta gtttctcact ttctctgctt ggatttgta cgtcaattg ac 292

<210> 3229
<211> 292
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700557425H1

<400> 3229

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ggaacaaaca agtggttctg agggactatg tgagtggttt tcctaaggaa tccgacatga 120
acatagttga aggaaccaca atattgaagc ttccacaagg ttccaatgat gtgcttctaa 180
aaaatctcta ctttctctgt gacccttaca tgagaatgct catgaccaag gtggaaggcc 240
tcgacgtgtt tggcacctat acacctggct ctccattaac agggatatga gt 292

<210> 3230
<211> 290
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700557426H1

<400> 3230

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caacaaatcg aggggctttg agtcggttct tgagcgacaa gggtcgcatt ctgagcgagg 120
aggaacaggc caaagagaat gtctacatcc agaaatggga gaggagagg ttggagaaac 180
agaagcaact gtctgagaag gccaaaggctc tcacggacaa agatgcttct gctgctgctc 240

<223> Clone ID: 700557434H1

<400> 3236

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 tccctcacia ctancaatgt cncgaagaga aacaccacaa gcaccgcctc ttccaccacc 120
 acaaggacng ggataataag ccagtagaaa ccgatactgg ttacgacaac acatcatatt 180
 ccaagccttc tgatgactat gactctggnt tcaanaagcn atcgatgag tcttctggcg 240
 gtggctatga aggtgggttac aacaanacat cttattctag tgatgagcna gcttctgggtg 300
 gt 302

<210> 3237
 <211> 297
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700557436H1

<400> 3237

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 gtattgctaa tgcagatttc acaactgaat ccctcattcc cactgggtct gtaaaaggaa 180
 ttgataattt gacataatga atgaactttg tgattattga gttaaaaaan aannnnaaaa 240
 aaaanaaaaa nggggngccc cccnnngtn ggcncctccc cccngggatt ttttncg 297

<210> 3238
 <211> 289
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700557437H1

<400> 3238

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 gcagtnnaat cttccagtga cgtggncata tgggaagnna tatggacnta ctctggaaca 180
 attgtcnnnn tgtggagcaa gnancctgca aactggcgg ggttagaatc anaggggncc 240

attgcagttg gnaaccatgc agatattgta gtttggcaac cagagctgg

289

<210> 3239
 <211> 289
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557439H1
 <400> 3239

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 ggaagcgaat taaaaaatct tatgatgcaa aggaccaact tttggagggt ggtgaggatg 120
 atgatattgt tcaatccaag tatgattcag atgaagatca gggatgatcaa gaagcaaadc 180
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<210> 3240
 <211> 246
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557440H1
 <400> 3240

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 tttcatttac ttctcaggag gtataactac tatttttctgc nnnnnnnnnn nnnnnnnnnt 120
 tgattaaatc ttttgccatg ggaaccacaga ttttgcgacc tcaggactgc ttggtagaac 180
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 attatt 246

<210> 3241
 <211> 293
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557441H1
 <400> 3241

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cagctgttac cactgtncaa ccgtgccggt gccggcatgg ttgctccatt cactggcctc 120
aagtccatgg ctggcttccc caccaggaag accaacaatg acattacctc cattgctagc 180
aacgggtggaa gagtgcaatg catgcaggtg tggccaccag ttggcaagaa gaagtntgag 240
actctttcct acctgccaga ccttgatgat gcacaattgg caaaggaagt aga 293

<210> 3242
<211> 290
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700557442H1
<400> 3242

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ttccgttgcc accaaagcct ctcgaggatc aaacgttgta catcgacgtg gtccacgccg 180
gctcggagga ggacaccaag ccgcttatcg gctcggctcg gctcaagctg gtggacattc 240
tcgacgacgt tggaatcggc gagcgcgtga gccgcacgct ctgctgaag 290

<210> 3243
<211> 293
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700557444H1
<400> 3243

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gaactctcag actgaagggc ctctgagaag accagtggct cctcctgtga gagaaccatc 180
aagtattgtc cctcagccac tgaagnnttc acctccttct caggttccgc cccagaaggc 240
ttctnntnnt tgctggggat gataataatg tcattacatt agagttnnngg gng 293

<210> 3244
<211> 291
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700557445H1

<400> 3244

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cgaggcttcc tacgctccag tcccacctcc ccagcncana cctnanaaan tcgggttcca 180
tggcctctgt gactgcttct ccgaatgtgg aaatgttgca tgacgtgttg gtgnccatgt 240
gttacctttg gccgagttgc agaaattgtt gacaagggat ccanatcatg t 291

<210> 3245

<211> 293

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557446H1

<400> 3245

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aagaccacta atgagaccat tacaaaggca gaaagtacaa aaacagaaga gcacttggtg 120
cgatttgagg aagcctttga aatgtgaggg acccttctga gcaagaaaag gtctttcaac 180
ccaaggtgg agcctgcttt ngtaacttgt tgagaaatct taaattttaa actgctagga 240
gatcattcct ntgtntntnt tttntngccn ccactncttt ttngggccat ngg 293

<210> 3246

<211> 299

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557449H1

<400> 3246

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agcttcagct ccagttcag ccttctttgg gaccagcttg aagaaggta ttgcctcaag 180
gggtcccaac agcaaggttt ccggtggaag cttcaagatt gttgctgtag aagagaagaa 240
agagattgaa gagaccagc agaccgacaa ggacagatgg aagggttgc ctatgatat 299

<210> 3247
 <211> 180
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557450H1
 <400> 3247
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 aagttgtgga acatgtcntt catgtttctg attgtaatat atattgccac aacattaatg 120
 tgaattgttg gtttttcttc ttgtacattc aaattatctt attttaagtt atgaattctc 180

<210> 3248
 <211> 287
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557455H1
 <400> 3248
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 cttcattgcc ccctctcct ccatatcact actagggttat ttctgaagaa tataagccaa 180
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 agccaagttt ccgcgcattt tgtcacataa gaaaaacgaa tgtcaat 287

<210> 3249
 <211> 287
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557457H1
 <400> 3249
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 tctctataca ctctntcntg ctctctggcc tcanatgtgg acnccantcn canttcctac 180
 ttccccaagn gnggcnanac cctcgaaatg gtgtgngagt cncnncctt naaagggang 240

ggnetctggnn ggtcaaccan ancggttcg ttgtcctatg cgacgag

287

<210> 3250

<211> 285

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557458H1

<400> 3250

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atcatgttat ttgtacatat cacctttatt agtatgcaat tgtttgtgta catctttatt 180

ttgttcccag tttcatctgt tttcttttat catttcacgc ttttcgttct gttgcgtatt 240

taaattttaa acaagcgatg taataaatgg ggtgttctat gtttt 285

<210> 3251

<211> 289

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557459H1

<400> 3251

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atngcannag catatgggna nagcatctct cnttcngagg cagcatctng tggattgnnc 120

tggccgtttc aacaactttg gctgtaatgg tgggttgcca tcacaagcct ttgagtacat 180

caaatacant ggaggacttg agacagagga agcatacccc tacactggaa aagatggtgt 240

atgcaaattc tcagctgaaa atgttgccgt tcaagtcatt gactcggtc 289

<210> 3252

<211> 286

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557462H1

<400> 3252

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tagcatatga aagaattctt aggctaaacc tttgggagca gtagtaacaa gaggattaga 120
tatcatgtta tttgtacata tcacctttat tagtatgcaa ttgtttgtgt acatctttat 180
tttgttccca gtttcatctg ttttctttta tcatttcacg cttttcggtc tgttgcgtat 240
ttaaatttta aacaagcgat gtataaatgg ggtgttctat gttttc 286

<210> 3253
<211> 285
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700557464H1
<400> 3253

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tcttcctcaa ggtcaaattgg atatgcatcc tctagtcaca acattgttgt acctcctcac 240
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<210> 3254
<211> 300
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700557465H1
<400> 3254

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gcgaggggtg getcgactac ttgggcaacc caagcctgat ccacgcccag agcatcctcg 180
ccatctgggc cacacaagtt atcctaattgg gtgccgttga aggttaccgt attgctgggtg 240
gccccctcgg tgaggtcact gacccaatct acccaggtgg cagcttcgac ccattggggc 300

<210> 3255
<211> 281
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700557469H1

<400> 3255

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cccttttagta tnaccctgtg cttctctcca acctctcatc atcnatctat ttgctccaaa 120
catggatgct anactctcgga tctcgccac acgtctgaca nataagaagt gtgtgccatg 180
caatctgaag gaattgcgac caatgagtga ggatgcagca cacantctaa tgccacaggt 240
tgctgagtgg aatttggtaa acgaanatgg tgctcatgaag c 281

<210> 3256

<211> 285

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557473H1

<400> 3256

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cttatgcagt gcaccagaca gagttagaag ccattctcac gggcttgaag gtggcttcag 180
agatgaatgt taagaaacta attgtggagt cagacagtga ctctgtggtg agcagggtgga 240
gaatgggggtt aagcccaatc accctgacta tgggtgctgtg gaact 285

<210> 3257

<211> 277

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557474H1

<400> 3257

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tgaatccatt ttccccaaaa tcgccactgg accaactcct cgtggacggg ttcgacgccg 180
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gctgaagca gctggtcgaa aatcccgaag agatttc 277

<210> 3258
 <211> 285
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700557475H1

 <400> 3258

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 tcttcttcga ggagcgtttc gatgacggat ggggaaatcg ttgggttaaa tcagattgga 180
 aaaaagatga gttctggctg gggagtggaa ccacacctct ggccaatgga atggagacgc 240
 taacgacaaa ggtattcaaa ccagtgagga ttacagattc tacgc 285

<210> 3259
 <211> 278
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700557476H1

 <400> 3259

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 taggatcacc anagatggta ttatttgtac atgttgtgat aagggtgtca cattatcaga 120
 gttcaagttt catgctgggt ttacagtga tgcacctgc ttgaatattt tcatggagtc 180
 tggtagagccc ttacactct gctccttca agcttggtca gctgaatata aagccaggag 240
 nagccaaaat caagccgtac atgctgatga taatgata 278

<210> 3260
 <211> 289
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700557478H1

 <400> 3260

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 ccagtgggtga gaancaaata acaattctga gtgcanttgg ttgaaacggg agtttgtgga 120

tntgttaaaa gattgtgtgg tagagtgaag cttggagatt taaaaaagag aagaaatact 180
atcaggggct tganngcnca atctgtcctg ttatgtggag ttcacgagca ttgaganta 240
tttgaagnac cagttggggg cagacnctgg acagctacat agatncnag 289

<210> 3261
<211> 152
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700557479H1

<400> 3261

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ancactaata tattgatatt aatacatcgt agaccaaata agaacaatca aacagccttt 120
ttctgtgtct cttccacaca acatacgnct cc 152

<210> 3262
<211> 200
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700557480H1

<400> 3262

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aagttcaacc cagtccaacc aaacattatg ctccaaaaag atgctagtat ttcacctctt 180
gggggtgttac aactcaccaa 200

<210> 3263
<211> 296
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700557481H1

<400> 3263

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tgctagttac ataggctctt gccttggtcaa gaagcttctg caaaagggt acaccgtcca 120

ctccaccctc agaaacttta aggacgagtc aaagataggc cttctgagag ggttgccctca 180
 tgctaattgat gagagactgg tgttatttga agcagacata tataaaccag acgagtacga 240
 gccagcaatt caaggctgtg agattgtctt tcacgttgct actccctatg aacatc 296

<210> 3264
 <211> 296
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557482H1
 <400> 3264

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 aaaattagag atcaaaataa aacaaaaaaaa ttacaagata taccaccata aaaaaagtat 120
 atactttttg ccttgaaaac ttacaagata taccaacatt aaaaaaaga aaaagtatat 180
 actatatgta caaggctact cccaaagtac tggtttttcc ttaaaaaaca atggtaaatac 240
 aaaacaatta ccgcaacaca ttactgnttc cnntccccca agtgcaacca tggcag 296

<210> 3265
 <211> 288
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557483H1
 <400> 3265

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 tgcnagcctt ggaagtgggtg ggggtgggcag ttccaggtct gttaatgggtg nacttcaggg 180
 gttcttccag ttccgtcgat tggcttggca gagagatgct tganatgtct ttgagagacc 240
 acgaggacga tagagatagt gagcctgaca tcattgatgg tttgggtg 288

<210> 3266
 <211> 290
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557484H1

<400> 3266
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ctccatcatg tgtcaaacc atcaaattag tggtagcatc atcgtatggg aaaaatttga 120
aaaatccacc ttccaaattt gcaatcactc ttagagagca cagaacaact ttggagcatg 180
cggcganngt tgccattact gaaacatgat tccggtattg tggnaatggg agcgggtgtgt 240
gtggtgggga tattggcggg ggttctgagc gaggaaaagg ccttggcctt 290

<210> 3267
<211> 287
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700557485H1

<400> 3267
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agacaatctg tggataaagc agagtttcaa gagtccagtg tggagaaaat acttaattta 180
ctnnntnacc actgtgaaag tgaggaagag ggagtgcgca atgtagtggc ggagtgtttg 240
ggcaaaaattg ctcttattga gcctgtaaaa ctcatccctg cactcaa 287

<210> 3268
<211> 218
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700557487H1

<400> 3268
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nnnnnnnnnn nnnnngtcat ggctcttggtg atatattttg tgcttnttct tgccctcact 120
ggccattcaa gtgctcttta ctgtgtatgc aaagatgggtg tgggtgatca agctcttcag 180
aaagcaatag actatgcatg tggtgctgga gctgactg 218

<210> 3269
<211> 285

<212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700557489H1

 <400> 3269

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 agaaaaataa aaacaaagag gttggaggga aaaccttggg gaagaagctt aagaagttaa 120
 aaagcattgc aaagggaaaa ggagattggtt attcaaattc aaggactagt gatcgtggta 180
 gaaagcaaaa ggagcgaaac tctggatttt ccagtgaatt caacttatcc aatcctagtc 240
 gaaaagaagg aaaagaggac ttccagagag gtcctttttg gggaa 285

<210> 3270
 <211> 284
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700557490H1

 <400> 3270

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 cttacataga ctacttagtc actgatgagt ttgtttcacc actaggggtat gcaaatatat 180
 attcagagaa gattgtacat ctccccatt gctactttgt aaatgattat aaacagaaaa 240
 atcaagatgt gttagatccc aactgccac acaaacgac agat 284

<210> 3271
 <211> 285
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700557492H1

 <400> 3271

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 atgcacnagc atttgggang agtatctctc tntctgagca gcagctngtg gatttgtgctg 120
 gccgtttcaa caactntggc tgtaatggtg ggttgccatc anaagccttt nagtacatca 180
 aatacaatgg agnacntgag acagaggngg cataccccta cactggaaaa gnnggtgtat 240

gcagtttctca gcngnnnatg atgccgttca ngacantgac tcggt

285

<210> 3272
<211> 284
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700557493H1

<400> 3272

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tttgtgttag cacgcaatac ttgcaaata tggagagcag cttaggagac atgttggtta 120
aggttgtggt gttcattcta gttcaagcct tggtttacct tatectctcc aattcatcaa 180
acgtgttcaa caagaacatg aagaaatcta acagcttcag gccggcacgt tcggtgagca 240
ttcgccggat gctcgctttg atctctgatt ttctccaga agaa 284

<210> 3273
<211> 286
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700557494H1

<400> 3273

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tcctcttgaa ccatggctaa gaanagagga gagttngga ttcatganag tgtggatgag 120
ctaaggactg atatggcaca ctatgttgct gagttatcag aggcactctgt gaaagagcga 180
ggagtctttg ccattgcttt atctgggtgt acctctcatt ggcttaatgg ggtatttgta 240
tcttatcttt tccatataat gtttctttgc ttnnatgatt tagtgg 286

<210> 3274
<211> 283
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700557495H1

<400> 3274

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gggagtcatt agaaaagtat acaaagaagc ttgcccgtgc tgaagcagta tatgcagggt 120
 cgaaaacaac ttcccaaacc agaaggaaca agacctacaa acaagactgg cttccttgga 180
 cttgttggtgta aaaagggtgga taccatagaa tattgcaacg agaagattaa tgaacttgag 240
 gccagattgg aatctgagca aaggtcactc tcagagagaa gca 283

<210> 3275
 <211> 163
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557496H1
 <400> 3275

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 agttataagg atttttttta tttgattagt ttggtgctaa tatctgtttg atgaatgttt 120
 tggaaatttc tgcattgagaa aaatttggac ctactccaac cat 163

<210> 3276
 <211> 191
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557502H1
 <400> 3276

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 ctatatgtga ttgtgttagt ntacagtagc aaggaaanga atagcaacca aaaatttagtg 120
 gctgttgagg gcatcctgtn aggggaattgg gaattgtgat cagcacatga tgagggtgca 180
 ttgtgataac c 191

<210> 3277
 <211> 294
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557505H1
 <400> 3277

gctgattcct gtatgacaaa tcttcacgaa gagagagaga gagctgtgtc tgaattctga 60

Sequence

<223> Clone ID: 700557509H1

<400> 3280

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tagggatata tgcattctcc taattaaatt tatcancctg catggtgagt ggttttgcaa 120
tggtacaac tgcatttagt ggcaccacca acttccatag aatggatttt naggtattgg 180
ttncagtttc 190

<210> 3281

<211> 192

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557510H1

<400> 3281

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tcgttaagac cctcactggt aagaccatca ctctcgaagt cgagagttca gataccatag 120
acaatgtaaa ggccaaaatt caagacaagg aagggatccc accagatcag caacggntca 180
tttttgctgg na 192

<210> 3282

<211> 181

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557511H1

<400> 3282

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ttccatatcc tttgtgttgt gttgccact ctannnnnnn nnnnnnnnnn nnnnnnnnnn 120
nnnnnnnnng acaacatccc accatttgtg gctgcctcta tttnagccct agcttaanna 180
g 181

<210> 3283

<211> 188

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557512H1

<400> 3283

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cttcttctng ttgtaactgt cgtacttcgg tgtcggncac agccccagaa tccccatcac 120
tctacaacac ttccttcaat gctcaccaaa tacacaanta acccctccaa catagtcttc 180
gccaacac 188

<210> 3284

<211> 290

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557513H1

<400> 3284

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cgccaatgcg gagttcgaat tccgaatcct aagacggaaa ctggaatcgc tggttccgcg 120
atcctccgtc tccggcgccg gtgatgactc cgcagtcgcg ttgtagctcg cgactgatct 180
cgccgaagca gaggttcgcc gtctccagct tccggccgga attgcgtccc tgaattgttc 240
cgttttttta tttgtngtat tcgagattga aattcgtggn gcgaangatg 290

<210> 3285

<211> 294

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557514H1

<400> 3285

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aaggaacaag gtgaatacac atgtagggat aggcattgctt gacattatgg ctcttaaaag 120
atggtgctct taagaactgt atgttggtat gtgaggcaat gtagattttc atcagaatag 180
gctaaaacaa tgaacagcag atcattcttt gattcttaga gtttgatatag gatatatatt 240
actctgntac ttacgtataa ttctttatat tacagtatga agccttgtag tatt 294

<210> 3286
 <211> 296
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700557515H1

 <400> 3286

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 gaaacccacc aagccagggt tggaggagtc ccaggaacag atccataaga taaggatcac 120
 cctttcttcc aagcacgtca aaaacctcga gaaggtttgt gcggacttgg ttcgtggtgc 180
 aaaggacaag cgcctcaggg ttaagggacc tgttaggatg cccactaagg ttccttnaca 240
 tcactaccag gaagtcccc tgtggtgaag taccaacaca tgggatagat ttgact 296

<210> 3287
 <211> 169
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700557517H1

 <400> 3287

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 ccaatcggnc tcagcagacg acgtcgttgt gctctctgaa gataacttcg agaaggaagt 120
 tggtcaggac agaggagctc tcgttgagtt ctatgcncct tggtnnggg 169

<210> 3288
 <211> 190
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700557518H1

 <400> 3288

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 tcttcttctt gttgtaactg tcttgacttc ggtgtcggca caagccccag antccccatc 120
 actctacaac accttccttc aatgcctcan canatacacn aataaccctt ccaacatagt 180
 cttcggcaac 190

<210> 3289
 <211> 100
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557519H1
 <400> 3289
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 ttctttcttct tanntgttgt aactgtncctt tacttcgggtg 100

<210> 3290
 <211> 286
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557521H1
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 caaacttttc cacctcaacc aacaaaaaac aaaccttgct gcaaagttgc atatcaaaaa 120
 ctttgcatgg ggggctgatt cttgcagctt ccgttgtaaa tgggtggagct gccacagctt 180
 taacgtacga tgaagccctg ggacaacctt tgagcctccc tgggtgctggg gactttgatg 240
 tgaacggttt tgtggagagt gtcactggct ttgcagctga aaaccc 286

<210> 3291
 <211> 288
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557522H1
 <400> 3291
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 caccatgggtg agcacaaagg tgaacacaaa ggagaacaac accatgggga gcacaaggag 120
 ggacttggtg ataagatcaa ggacaagatc catggtgatg gccatgacaa ggggtgnnnnn 180
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nntggacatg accatcatgg tcatagcagc 240
 agcatgacat gattagatct tatatgttaa gcagggtgtac ggtacgat 288

<210> 3292
 <211> 79
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700557523H1

<400> 3292

ggaacaaaa caaccattg ncgagcttgc acaactctcc atggtagnag tagcacttac 60
 taactttcac cacactnct 79

<210> 3293
 <211> 191
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700557524H1

<400> 3293

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 agcgaatgaa tctgtggacg gacgagaact cctcggatgat ggaggccttc atgccatcct 120
 ccgatctctc ctccatctgg cccctcccg ctccctccgca gccgcaatcc acggcgggtct 180
 tcaatcagga c 191

<210> 3294
 <211> 96
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700557525H1

<400> 3294

actgganttn caactgaagt nangtctgta ggagntgcac cntgnatctc ttacagaggc 60
 acatcctggg gacaatntgg tnttcnntgt taagag 96

<210> 3295
 <211> 288
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700557527H1

<400> 3295

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 gtcgggtaat cngatccgat cggcgctgtg atcggatcat cgatttgacg cttgtttggg 120
 agagangcat ttcattgcc aatgggaatgc ncaatcccaa caacattctt cccagtcttc 180
 ctcgtcacnt cgcaccatga gcaaancctt gggaggaaca anagaagacg aagacgaaga 240
 agaacaacaa ctactagaac aagacnaaga ttgttctnct actnacac 288

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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557528H1
 <400> 3296

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 aagatgtttg gtgcagagaa acagtgccaa aggtattgaa acttgtctgt tccacattac 120
 ctctgtctct gtctcacaca aacctcgttt ctctccttct ggtctctccc tcccttcac 180
 gcacccttct 190

<210> 3297
 <211> 181
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557529H1
 <400> 3297

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 tccttatata tgcttagatc ttgtatacga ntatacattg gctcgttgat ggatttggca 120
 tagatccgca gcaagagatt acgttgggtga ggcaagttga gtatcaagat tctctcgtgg 180
 a 181

<210> 3298
 <211> 297
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557531H1

<400> 3298

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tgaaatactt gaagaattgc aaatgggtcca agacccaaat tcagcactta tgaaccaaat 180
ttctgagtcc cagtgtacgg aaacagagtt ggaggagaag atcatatcag ctgtggacct 240
cttgataagt ttcaggggaac agagagatag gcttaggata gagcatgcaa atgcact 297

<210> 3299

<211> 98

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557532H1

<400> 3299

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aggctcaaga ggggtccatgc tgatttgagg aaatgggt 98

<210> 3300

<211> 277

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557535H1

<400> 3300

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gctgaggata ttgaacaaga ggcttttagca actcttgtgg tgaacaaact tagaggatca 120
ctgaagattg cagcactgaa ggcccctggg tttggagagc gcaagagcca gtaccttgat 180
gatattgcca tcttgactgg aggtactgta atcagagaag aggttggcct tactttggac 240
aaanctggga aagaggttct cggaatgcc tccaagg 277

<210> 3301

<211> 284

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557536H1

<223> Clone ID: 700557542H1

<400> 3304

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tattttttctc ttcaaataac tccacaaaac ttccaggtag cttttctttg aagagaaaag 120
atagtgcacac aacagtagag agacgagttt attgctctgc cgctgctcaa tcaccaccac 180
cagcatgg 188

<210> 3305

<211> 284

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557543H1

<400> 3305

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ttgctgcaaa ggttctctct tagcatggta acaatgggtt tgaaagcact ttttgtttgg 120
tgcataatat ggttggcggt tgcacagttg tctactaggag gaagagtga ggcattacaag 180
tttgatgtgg agtattgatc agaaagccag attgcttgga acacgttgtg atgggaatca 240
acggccattc caggcccaac tattaggggc tgaanttggg gaca 284

<210> 3306

<211> 289

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557544H1

<400> 3306

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tttgcctgag gatgcaacca aaggggacag caatgtagcc tctgaagaca actcaaactt 120
gtcagataaa caagaagaga agtcggagga aaatcctgta gagangtctc tgacgataca 180
aagtcggaag acgtggagga taagaaaact gaggaggaag gttctaatac agaaaatgaa 240
tcaaactcag actctacaga aattagcaag acagtgatga gacttccat 289

<210> 3307
 <211> 100
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700557545H1

 <400> 3307

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 ttggttnattt tcccggccca cccaccccg ggaactcttc 100

<210> 3308
 <211> 189
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700557546H1

 <400> 3308

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 tggtcattgt tgatgatgtc acgcgccgcc gtgctattac acgcgccgga ggaagatgcg 120
 gcggcggagg agtgctgtac ctgcacttcg tcgtcgtcga tcgggaggaa cagcgacgtg 180
 tctccgaaa 189

<210> 3309
 <211> 293
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700557547H1

 <400> 3309

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 tgggaaaagg atgttcaggt gatgaatgaa ggacctggac acatcccaat gcacaagatt 120
 cctgaaaaca tgcagaaaca gttagaatgg tgtagtgaag cgccttttta cactcttggt 180
 cctttaacaa ctgatattgc ccccggctat gatcacatca cctctgcaat tgggtgctgcc 240
 aatattgggg cattgggtact gctcttctct gttatgtgac tccaaaggaa cat 293

<210> 3310
 <211> 194

<212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700557548H1

<400> 3310

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 tcttcttccc atcaaacaac aaaaaatcaa tctgggaaac aaaaacaaaa tgccgtcatt 120
 agaggaggaa ctcttcccat caaccccagg aaagttcaag atcgagcggg cccaccacat 180
 gaaccgcaa ctct 194

<210> 3311
 <211> 183
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700557550H1

<400> 3311

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 aaaaagatga tgatgatttt gtttgtaatt tatnttattt gttttgggtt ttttttttaa 120
 ttttgtagat ttttctttta tgatgggtaa gtagggattn naatttgtaa ttgtnatngg 180
 ccg 183

<210> 3312
 <211> 185
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700557551H1

<400> 3312

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 ggnaaagaga ttgtttgtgt gtgagtgaat atggctggaa aangcgaggg tcctgctatc 120
 ggaatcgatt tgggaacgac gtactcttgc gtcggcgtgt ggcaacacga ttcgtgttga 180
 natca 185

<210> 3313
 <211> 93

<212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700557552H1

<400> 3313

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 ggttgaaagg atgcttcaag agcaaagatt cca 93

<210> 3314
 <211> 288
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700557553H1

<400> 3314

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 atacatgtcc taccacagcg gacaancccg accatggacc tactcaaaga gaatcttgac 120
 ttgcccattg atcttaggaa aggtactcgg tctacacgta atccttatcc tatttataac 180
 ttcttaagtn atcattgtct ctcttcttca taccattctt ttgtttcttc tttatcttct 240
 atttctcttc ctaaaaatct ttgtgaagca cttgatcatc taggatgg 288

<210> 3315
 <211> 284
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700557554H1

<400> 3315

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 atcgagacaa accgcacaac tgctaggatt ttcccagctg ttcttgatgt tgaaaaccca 120
 gagttcaagc ggaagttgga ccggatggtg gagataaacg agaagattat tgctgttggg 180
 gagaagtgat gacatagcgg tgggtgaagaa cttgaagagg atcccactgg ttgctgcatt 240
 ggtgtctgaa ctcttggtgcaa catatctaag gctccantg agtc 284

<210> 3316
 <211> 85

<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700557555H1

<400> 3316

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tccttcttgc caccgtatca tagga 85

<210> 3317
<211> 289
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700557556H1

<400> 3317

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catcaatcct gatgaacttt caatgcaatg tatattgatt gctttaaacc gatttcttca 120
ggagaaacat ggttctaaga tggccttttt ggatggcaat cccctgaaa gactttgtat 180
gccgatagtn gatcatatcc agtccttggg tggatgaagt catctaaatt cgcgcattca 240
aaaaattgag ctaaattgat atgggaacgg tgaagacttc ttacttaat 289

<210> 3318
<211> 288
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700557559H1

<400> 3318

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aatccaagag gtttgaaatt tgaaggcagg gaagatggat tatttcaatg caccaggaag 120
aaaccatctc tttgttccag ggccggttaa cattccggac cagatcatcc gggccatgaa 180
cagaaacaat gaggactacc gttctccagc aattccagct atgacaaaaa ctttgcttga 240
ggatgtcaag aagattttca agaccactat ggaaccccat ttctcatc 288

<210> 3319
<211> 285

<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700557561H1

<400> 3319

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actggacagg ccattgatcg tctcggttcc ctctccagg gcggttacta cgtccaagag 120
cagctgtcta ggcacgaac tctgatggac atatttgata aggcctctgt tgttgatgag 180
gatgtatttg ttgcgcctag tgccctccgc attggagacg ttcaacttgg aagaggatca 240
tccattggta tggagttgtc ttgaggggtg atgttaacag catca 285

<210> 3320
<211> 290
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700557562H1

<400> 3320

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ctcttgtttt ttctctaggt ttttcgcgat ggcgtcgaag cgaattttga aggagcttaa 120
ggatttgcag aaggatcctc caacatcttg cagtgccggt cctgttcatg aagatatgtt 180
tcattggcaa gctacaatta tgggtcctcc agacagtccc tatgctggag gtgttttcc 240
agtgaactatt cattccctcc agattatccc ttaagccac ccaagggtgc 290

<210> 3321
<211> 129
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700557564H1

<400> 3321

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agtgaacgag gggcaccctg acaagctctg tgaccagatc tccgatgctg tgctcgatgc 120
atgcttgga 129

<210> 3325
 <211> 284
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700557568H1

 <400> 3325

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 ctgttttattg agaagaactg cagaacatgg cacagncttg gctccctcta cgcaatggca 120
 gatgagaatc tcaaaatcct ctccaatgc aactcccatt acatcaaaca tgtggagttc 180
 tttattgtgg aaacaaaata agaaagtttc acctaccagt tctgctaaat ttagagtgtc 240
 ggcaattaag tctgacnata gcaccatcaa caggctcgag ggtc 284

<210> 3326
 <211> 262
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700557569H1

 <400> 3326

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 nggtctggcg gctagaactg ccacaagcaa cgtgttctgt agtgctgggtt acaagtgtgc 120
 aatgagggca ctccaatccc aatgctgcag cccggatgaa gtgatatttg gtcctgattt 180
 tttccaatca ctgtactgcc atctgctgtg tggctcgatt ttccgggagg aagttgagtt 240
 tgtatctcca catttgca ta 262

<210> 3327
 <211> 275
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700557570H1

 <400> 3327

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 gttgcttggc tagtgggtaa aacaattgga ctctacttct cagcgggaatg gtgcgtccca 120
 tgcgccaagt tcaactccaaa actgatttct gtttacgaga agataaagca cgagctagcc 180

ggaaagggag aggaagactt cgaagttgtg ctaatatcca ggcaccgga ccaagcatcc 240
 tttgactcct actacagcac catgccttgg ttagc 275

<210> 3328
 <211> 284
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557571H1
 <400> 3328

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 cccagtagac cattcccttt tcttatgaat atcattccaa ccactgcaa caattcggtt 120
 caagaccacc ctcaaacc atccaaacct gttatttgtg atctaccatt ggctaggaaa 180
 gcttcacttc atcggttctt ggagaaaaga aaggataggt aagtaggctg agtcatggaa 240
 attaatacat caacgaagta taccttcagt ttcttcaaaa ttgg 284

<210> 3329
 <211> 287
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557572H1
 <400> 3329

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 attttggttag catggcaatg ccatgcgtac gatatgttcc ctctccgaat gaacactggc 120
 tatggtgccc gtactccgga ggtgaaatgc gcaagttgga ggcttgctgt ggaagcacac 180
 aacatctttg gctttgagac cattcctgaa gagtgcgttg aagcaacaaa ggaatacatc 240
 catggcgaac aatatagatc agactcnaaa acagtnaacc aacantt 287

<210> 3330
 <211> 91
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557573H1
 <400> 3330

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aattcctcag taacatctgc nggaagtctt c 91

<210> 3331
<211> 283
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700557574H1

<400> 3331

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cccaacacgt tctataaaca tatagtactg aacctccac tgaagagtaa ttggtggatt 120
ccagcaatgg cctgtggttca tggcagttgg gtcaagcttg atccaaagag gagaagggca 180
aggagcgaga agctcacatg ctatagccat agtagcacag aaggtgtatg catttgggtg 240
cgattcgtgc cacgtgtccc gttgaaaaaa cttcccgnlc gcc 283

<210> 3332
<211> 185
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700557575H1

<400> 3332

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atcaaacaat ttgacccca ctagaaaact aggagatgga ggctttggca ctgtttacta 120
tggaacacta agagatggaa ggggaagttgc aatcaagcat ctatttgagc acaattacaa 180
gagag 185

<210> 3333
<211> 285
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700557576H1

<400> 3333

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tcgaccgcaa cggcgacggg agaataacga agaaggagct gaacgactcg ctggagaacc 120
 tgggcatctt catctctgac aaggacctga gccaaatgat ccagaggatc gacgtcaacg 180
 gcgacgggtg cgtggacatg gacgagtttg gggagctgta tcagaccata atggacgagc 240
 gcgacaatga ggaggacatg agggaggctt caacgtcttc gacca 285

<210> 3334
 <211> 284
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557577H1
 <400> 3334

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 atttgtcaac atccttcaaa atttaagatt tagggttgac acttttagcgg ccacatttgt 120
 tcacacataa atagcagttt ctgcaatgag aacacacata gttgcctcgc actatttaaag 180
 gtctatgcct taatggtttg tagaatccgt tctggagata tgagcaagcc cacagattat 240
 tttttggttt tcccgtaggt gtgcaggttt acaggatgca aatt 284

<210> 3335
 <211> 285
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557578H1
 <400> 3335

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 tgcttcctct gccattgcag ctggtgccat ctccacacca agttcccaga agaattggatc 120
 actcttgagg agcacaaaag ctctttctta gtgggaggaa actgaagggtg aacagtttta 180
 cagcaccagt tggagcacga tccagcacta cagtgtgtgc agttgctgag cctgataggc 240
 ctctgtgggt cccaggcagc acccctcctc catggtagat ggag 285

<210> 3336
 <211> 188
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700557579H1

<400> 3336

atttggtgag agtgggaagac cagccttagg agatgaaggt gccgtacctc caaatgctta 60
tcttcaattg gatcttgagt tggctctctg gaagaccgtg tctgacatta ccaaggatag 120
aaagggttctc aagaagactt tgaaggaagg ggagggatat gaacgaccaa atgatggagc 180
tgtagttc 188

<210> 3337

<211> 95

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557580H1

<400> 3337

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ttttccttct ctctcttct ctttgtgttt ttgnc 95

<210> 3338

<211> 89

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557581H1

<400> 3338

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cctaactggg acgggnnct ganatggag 89

<210> 3339

<211> 96

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557582H1

<400> 3339

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ggcaacatgc ctggtgatca atgtgggatg caatgg 96

<210> 3340
 <211> 284
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557583H1
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 ccaagatgaa taccaacaac gacaccgaaa aaaaccaatc atttccagaa gcacaaggnn 120
 nnnnnnnnnn nnnnnnnnnn nnnnncaatg ttgggactga gaattgggga actcacataa 180
 tgggcacccc tgctgttcca agcagccacc cagataacaa aaaagcagnt tacaaagtgg 240
 acaacctcaa ccagttcaat actaccatga ccaacatcaa catc 284

<210> 3341
 <211> 280
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557584H1
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 tcttcttcag caggcactgt ttgcccccaa gctaagtttc ctttcttctt ctgtaacgt 120
 ggcgttaatt tctagggttc cttccacccc aatttcattg cgttgcactc cctcattgc 180
 taagcctagt ttcgtagtga gagctgacac caacctcgat ggcgggtggtg aagccaccga 240
 ggatgttcct tcggataatg ctgaaaaagt ttcggaaggc 280

<210> 3342
 <211> 282
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557585H1
 <400> 3342
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 cccctttga atcatattnt ntacctgtgg ctgttggtga aggagcatct tctgccaatt 120

ttcctcttga gccactttta aacaagtcac caaatgtggg agaaagtggg gacatttga 180
 cttattttac tttgatatt ccccggtgtg nagctggncg gantattcac atanggctat 240
 ctgcagatgt gaagatcagt tangaagtct atgcnnnnnn ng 282

<210> 3343
 <211> 184
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557588H1
 <400> 3343

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 gaggctgaga agtacaagtc tgaggatgaa gagcacaaga agaaggttga ggccaaaaac 120
 gcttggaata ctatgcatac aacatgagga acaccgtgaa ggatgacaag attggtgaga 180
 aact 184

<210> 3344
 <211> 184
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557589H1
 <400> 3344

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 ttgaagatga cacagctctc tgaatgtacg tgaaggttct tgtagtggga gaaaaagttg 120
 ngtgtggaat gagcaanagt tgaaaaagtt ccattgttga aacatttga gcacgggnta 180
 tcnc 184

<210> 3345
 <211> 91
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557590H1
 <400> 3345

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gtttacttgg ggcggaattcc attggtggaa g 91

<210> 3346
<211> 286
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700557591H1

<400> 3346

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gggcctttct tgcctagtgt ttcttccaag cactctccac cttccatttc tccatctttt 120
ggcttgagga gtctgaaatc aagctcttta tttggagaat cgctaagagt ggcctccaaa 180
tcaacaataa aggtttcaaa gacaaagaat acttcaactcg tgaccagatg tgaaattggg 240
gacagtctcg aagaattcct cacaaaagca acaccagata aggggt 286

<210> 3347
<211> 286
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700557592H1

<400> 3347

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aacaatgcta ctgaggccac tgtgacagcc tcaactcaatg tttggcaaata gaattctgca 120
tttatacgcc cattccaccc tgatcagaag aattaaaata aataattaaa ttggatataa 180
aagacttgta gtcacaaagg atcggaaaac atcttggggg ggcaatttgt actcatcaat 240
tgtttacctt ccataaaca cacataaagt tatgggttct tgctna 286

<210> 3348
<211> 292
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700557594H1

<400> 3348

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atgggcaagc caactcaagt ccaccttcac taggactctt gtagtccca agggcctctc 120
 tgcctcttca ccacttcacc tcgtgccttc tagaaggcaa tttagcttca ctgttaaggc 180
 catccaatca gagaagccaa cctatcaagt gattcagcca atcaacggtg acccattcat 240
 tggaagcctg gaaaccccag ttacatccag ccctttgatc gcatggtatt gt 292

<210> 3349
 <211> 292
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700557595H1

<400> 3349

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 gactgtagaa ctgaggaggg tacgccgtga gttcaaggct aacaagatct ccgaggaaga 180
 gtatgttaag tcaattaagg aggaaattcg caaagttgtt gaacttcaag aagagcttga 240
 tattgatgtt cttgttcattg gagaaccaga gagaaatgat atggttgagt ac 292

<210> 3350
 <211> 95
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700557596H1

<400> 3350

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<210> 3351
 <211> 103
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700557601H1

<400> 3351

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atcaagaact gcnttcagca tcacnaaagg gtnttggtct ttt 103

<210> 3352

<211> 224

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557603H1

<400> 3352

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ttaaattgga caataatgtg taacatttta aaatcattaa attggaattc caagtgacag 120

ccacttatcc ctgccactca aataaatcat tctcaaattg tacacattat tgttcaagtt 180

caagattgtc aattcgtcat atttttagaa taaagtgtcg atga 224

<210> 3353

<211> 286

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557604H1

<400> 3353

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aaataaaaacg cagacaatga ggtgtaagan acacttaccg gacctcacia gcaccatcgg 120

cgtgtgcgct tcatgcctcc gcgaacgcct ccagcctctc cttgcagccc aggcccaata 180

cagaacgttc caccaattcc gacgtggata ataataatca tcgtcgaaga aagcccaagc 240

tcaagcccga agaaaaccct ctgccgctca tttcccgcgc tccgtg 286

<210> 3354

<211> 277

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557605H1

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acctcggatc ccaagagtaa gcctgagtgc tatggtgtct tctgccttac ctatgatttg 120

agggctgaag aagagacaag atcctggaag aaattaatta acattgcagt ctcagggtgct 180
gctggaatga ttgcaaata tctacttttc aagcttgcac ctggtgaagt ttttggccca 240
gatcaaccta ttgctctcaa attattggga tcagaaa 277

<210> 3355
<211> 290
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700557606H1

<400> 3355

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gtgaaaccta catcgccann nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180
nnnnnnnnngt ggcggcagtg gtagtatttg gaaattgagg attgagtggg gtgtgtgaaa 240
aatggctgcc aggagtgatc accaaacggt tcctctttcg gtgctcctga 290

<210> 3356
<211> 287
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700557607H1

<400> 3356

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caccgctcaa ccgtgccggt gccggcatgg ttgctccatt caccggcctc aaatccatgg 120
ctggcttccc caccaggaag accaacaatg acattacctc cattgctagc aacgggtggaa 180
gagtacaatg catgcangtg tggccaccaa ttggcaagaa gaagttcgag actctttcct 240
acttgccaga cctcgatgat gccattggc aaaggaagtc gaatacc 287

<210> 3357
<211> 287
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700557608H1

<400> 3357
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acctactctt cccttccaat aaaaagaaat tcaactttat ccgatactct accgctttca 120
ttttaatctc atccttctcc gtttccttca aaacccaaac ttgaacttct tgtttcttgc 180
tcgtggaagc aaatgacaac cacgccctgt gtaactggtg ccttgtcaaa cgcggtcgga 240
ttccgtgact ggaaaaagca tgtcccttta tcagcttctc tctgtaa 287

<210> 3358
<211> 294
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700557609H1

<400> 3358
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aagtccatgg ctggcttccc caccaggaag accaacaatg acattacctc cattgctagc 180
aacggtggaa gagtgcaatg catgcaggtg tggccaccag ttggcaagaa gaagtttgag 240
actctttcct acctgccaga ccttgatgat gcacaattgg caaaggaagt agaa 294

<210> 3359
<211> 102
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700557610H1

<400> 3359
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ttcttcttcc gactaataac gaaaannaga gggaattcac aa 102

<210> 3360
<211> 280
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700557611H1

<400> 3360

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tcctggaggc ccaactccggg gcggggcggg tgcaggcccg gttcgggttt ggcaagaaga 120

aagccgccgc cccgaagaaa gtttccaggg ggtcgggctc tagctccgat aggccctgt 180

ggtatccggg cgccaaggcg cccgagtacc tggatgggag ccttgtcgga gatacggatt 240

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<210> 3361

<211> 291

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<213> Glycine max

<223> Clone ID: 700557612H1

<400> 3361

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ggcaaacgga cggcgggcgc acgcgtcgct tctagcccg attctgactt agaggcgttc 180

agtcataatc caacgcacgg tagcttcgcy ccactggnet ttcaaccaag cgcgatgacc 240

aattgtgcga atcaacggtht cctctcgat aggttgaatt actattgcga c 291

<210> 3362

<211> 294

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557613H1

<400> 3362

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gagccccgaa tttcggttcg ggtcggagct ccagtttcag cagcttgga cgtgtttga 180

gtgatgattg gggagagctt ccgtttaagg aggacgattc agaagatatg gtgttgtag 240

gcgttctccg tgacgcatta atgtggggac ggtcccatcc ctcgatgccg gctc 294

<210> 3363
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 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700557614H1

 <400> 3363

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 cttgggaagc acaaaagctt cttttcttag tgggaggaaa ctgaagggtga acagttttac 180
 agcaccagtt ggagcacgat ccagcactac agtgtgtgca gttgctgagc ctgataggcc 240
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<210> 3364
 <211> 297
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700557615H1

 <400> 3364

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 ggtattctcc ttctccttct ccttctccat acaagcgata cggaggtct gnntccaggt 180
 ctctctcaat atcnagatcc agaagccgtt caaggagttt atcnagagat gcagannatc 240
 caggagacaa ttgtatgtga caggattgtc tcctangnna cnancnngaa ctggagg 297

<210> 3365
 <211> 301
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700557616H1

 <400> 3365

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 catgataagg agattctcaa cattgtgaag gaaaactttg atttcaggcc tggatgatc 180

tccatcaacc ttgatctcaa gaggggtgga aataacaggt ttttgaagac tgctgcctat 240
 ggacactttg gaagagaaga ccctgacttc acatgggaag tgggtcaaacc cctcaantgg 300
 g 301

<210> 3366
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557617H1
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 gtctctcaag gactccacct tgttcggtct ttcattttca gaacctatca aagctaactt 180
 cagctcttct gcattgaggt ncaagagggga attcgaacaa aagctctntg ctgtgagggc 240
 cgaaacagtg gctacagcct ctccagcagt taccaag 277

<210> 3367
 <211> 184
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557618H1
 <400> 3367

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 attgaattgt gactaaaggt aacaaaaaat ggaagggcat gccatggttt gacgttttac 180
 actg 184

<210> 3368
 <211> 237
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557619H1
 <400> 3368

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ttgttggtta taactgtggt gtaggatgca gaacaaggaa gcaaaggaag aaagtgatgc 180
atgtgaagtg tgcagtgggt gaggtccac caggtgtttc accctcagca aaagatg 237

<210> 3369
<211> 286
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700557620H1

<400> 3369

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cggactccga ccaactcttcn nnnnnnnnnn nnnnnnnnnn nnnnnncgag aaggagcggc 180
gcagaaagag cgaggggaaag gatgagcgaa ggagtaagaa gagagacaaa gagcgcaaaa 240
agaagaagag gaggtccac gattccgatg actcctactc ttcgga 286

<210> 3370
<211> 284
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700557621H1

<400> 3370

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accattttcc atttgaaccc ttctggcagg tttgtcattg gagggccgca tggcgatgct 120
gggtctcaccg gccgcaagat catcatcgac acctatggag gatgggggtgc acatgggtgg 180
gggtgccttct ctgggaagga tcctaccaag gttgatagga gtggtgccta cattgtgagg 240
caagctgcaa agagcattgt tgcnaatgga cttgctagga nggc 284

<210> 3371
<211> 85
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700557623H1

<400> 3371

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tatganccat ntgggtcttng cnnga 85

<210> 3372

<211> 287

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557626H1

<400> 3372

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ctttcaactg ttgctctgct tctgcacaca gagaatgggtg tgggtgggga aacagagatg 120

atctatctgt gttcacagca ccaactgtttc cctgcctcac ccttatgtac aagaacaaga 180

ataagcacac acacccgcca caacgctata gtcatacatt cgaagaactt cacaattttg 240

ttttcttga tatggggagt ctgctcttga aaccgaggat gtatctc 287

<210> 3373

<211> 290

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557628H1

<400> 3373

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atggtggaca ggccggacat ttgttgtact ttttactaca cttgccatat ttgtacctct 120

tgcgagcttt aagcgaattg attcattgag attcacgtcc gccctttcag togcacttgc 180

agttgttttt ctagtcattg ccgtgggaat tgctgttgtc aagatattta gtggaggcat 240

tgtgatgcc agactcttcc ctgtcacgac tgatgtggca tcattcaga 290

<210> 3374

<211> 196

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557630H1

<400> 3374

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ttncaataan tccacaaaac ttccaggtag cnnttctttg aagagannag atagtgcacac 120
aacngtagag agacgagttt attgctctgc cgctgctcaa tcatcancac cagcatggcn 180
aggaacagct attccc 196

<210> 3375

<211> 297

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557631H1

<400> 3375

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gagtgcgttg aaccaanaaa ggactacatt aatggcgaac aatttagatc agactctaaa 120
acagttaacc aacaagcttt cttttatgct agtgaacgcg aagtccatca caacgacata 180
tttatattcg gcatagataa caccgtactc tctaatatcc catactatga aaaacatgga 240
tatgggggtgg aggatttatg aaaccttata tgatgaatgg gttacaaggg cgacgca 297

<210> 3376

<211> 293

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557632H1

<400> 3376

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atgataaaga tgctgggtgt ttgatatcaa ttgctgagta tggctnagag tacggcaaag 120
nnaacccaat tagagttctc taccatgggt ttggtcatna tgatgcatta gagattccta 180
gaaggaaggg tcctangcca agactgtagc attcatattt aaaatgtgna agagattaaa 240
gcttgatatng gttcccttca gtaacattca taatgtcact ataggtcagg ntc 293

<210> 3377
 <211> 101
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557633H1
 <400> 3377
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 tccagaacct ttccacagcc ttcaagcccc ntctccgtcc t 101

<210> 3378
 <211> 282
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557636H1
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 cagcngccac ctgcgtcctt catggggacg cgctcctgg aggcccactc cggggcgggg 120
 cgggtgcagg cccggttcgg gtttggcaag aagaaagccg ccgccccgaa gaaagtttcc 180
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<210> 3379
 <211> 285
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557637H1
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 gcctcacgag ggtcaccaac ggcacgtgcc tttggggggc cgaggcccc taactgctggt 120
 cggcaaacgg acggcgggcg cacgcgtcgc ttctagcccc gattctgact tagaggcggt 180
 cagtcataat ccaacgcacg gtagcttcgc gccactggct ttancnacca agcgcgatga 240
 ccaattgtgc gaatcaacgg ttcctctcgt actaggttga attac 285

<210> 3380
 <211> 185
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557638H1
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 aaaccaatt agagttctct accatggctt tggtcatatg atgcattaga gnttcnagn 180
 aggaa 185

<210> 3381
 <211> 284
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557639H1
 <400> 3381
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 gacatgtaat gtatctttgg agtatgagaa gagtgaagta aactcaggct ttttctactc 180
 aagtgcggaa cagagagaag ctatggttgc agctgaaaga cgacagggtg atgaaaaagt 240
 taaaaaatc attgaactga agaataaggt ttgttctggt aatg 284

<210> 3382
 <211> 281
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557640H1
 <400> 3382
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 cgcataaacg gaacgagctc gttcggattc gccacgattc ttctgacagc ggggtctaac 180
 ccatgaagaa tttgaatggg caaatctgtc aaatatgcgg tgatactggt ggantaactg 240

ctacnggnga agngtttgnt gnntgcaagn ntngccttc c

281

<210> 3383

<211> 290

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557641H1

<400> 3383

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nagccttgca acaaaggctt agtttaaaaa aagctgatct tcctttagtg ggaattatta 180

ctcgattgac tcatcagaaa ggaatccatc tcatcaaaca tgccatatgg cgcaccctag 240

aacgtggtgg acaggttgta ttacttggtt cagctccaga tcctcgatc 290

<210> 3384

<211> 288

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557642H1

<400> 3384

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gatcaaagat gggataaaca ngtagtcaa tccatttccc atctttgatc acttgagac 120

cagaaacttg tgatcaaaga tgggaaatgg attgcagtac ctgttattcc caatgcattt 180

gttatanncc tgggagatca aattcaggtt cttagcaacg gaagcntcaa aagtgnccaca 240

tcacagggct gttaccaaca aattgagtc acgggtgtcg atggcaat 288

<210> 3385

<211> 288

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557644H1

<400> 3385

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agcagcaaaa ttcagagcgc actcggctac atggcgccag agtttgctg caagacggtg 120
 aaaatcaccg agaaatgcga tgtatatggg tttgggtgtct tggctcttga gatcgtcaca 180
 gggaagaggg cagtcgaata catggaggat gatgtgggtg tactatgcga catggtgaga 240
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<210> 3386
 <211> 293
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557645H1
 <400> 3386

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 agcatggcca ggaacagcta ttcccgagcc ttctgatttc aagacatggg atgggcaaaa 240
 acctatttct gtcttaggat ctacgggttc aattggaact cagacactga gta 293

<210> 3387
 <211> 295
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557646H1
 <400> 3387

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 acatagttga aggaaccaca atattgaagc ttccacaagg ttccaatgat gtgcttctaa 180
 aaaatctcta cttttctgt gacccttaca tgagaatgct catgaccaag gtggaaggcc 240
 tcgacgtgtt tggcacctat acacctggnt ctccattaac agggatgga gtgtc 295

<210> 3388
 <211> 293
 <212> nucleic acid
 <213> Glycine max

[illegible]

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tcagccaatg	ttcaatat	gcaatcaaaa	ggcttttata	gtcataatag	ccagccagtt	240
gtctaaatat	cttgcaccta	tagtctatag	atgggggcatt	ccttgtagct	agg	293

<223> Clone ID: 700557648H1

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<223> Clone ID: 700557649H1

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acgaagagtc	gtcttggagc	tctgataaca	actacggcca	caagcgattc	ccagcagcca	180
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1226

<223> Clone ID: 700557650H1

<400> 3391

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caattgcaat gcaaaaaaga agaacccttg gttagaccct ttgatgatgg ggaggatcct 240
gagatggagt atgggttcctt gtttgcatat gggaagca 278

<210> 3392

<211> 184

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557651H1

<400> 3392

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gcaacaagga aannnaaatc ttcgngagct catcagcaat gcctctgatg ctttgaacaa 180
gatt 184

<210> 3393

<211> 283

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557652H1

<400> 3393

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taatactagt ttcttattcg gtttctagat gtcttaggaa caggagcaca gcaaacacc 180
cctctctttc aaagcacaac ctaagatgtc ttgttcttga tttcttgcta tctcaaattg 240
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<210> 3394
 <211> 284
 <212> nucleic acid
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<223> Clone ID: 700557653H1

<400> 3394

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 aaatccacaa caacaatggg gagaggattg ctcaacaagc tcgtctctng ctccctctcg 180
 gtcgccggaa aatggcagca caatcaactc cgccgcctca acatccacga gtaccagggg 240
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<210> 3395
 <211> 284
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700557655H1

<400> 3395

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 ccattagtca tttggatgta aataagatta ataacattgt tgctgacatg aggnaagtct 180
 tagccaaaaa tcctcaagtt gagcagcaga ggttgacacag gagantgttt ntggacaaca 240
 tanatcctga aaatcaggnn cttttgatcc tgggtgtctgt nttg 284

<210> 3396
 <211> 283
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700557656H1

<400> 3396

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 ccctatccat acttcgtatc ggtaatccat ttattcgtgg gaggggcgta ctgtttgggtg 180

agctgggccc tgggccttcc aaagcgtgct cctatagact ccaacctact gaagttgctc 240
atccagtggc tgtgtgtcat gcattaggcc atgtgaccag caa 283

<210> 3397
<211> 288
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700557657H1

<400> 3397

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tgtgaaatcc ccagtgattg ctaggaatcc ottgaggcaa gctgtggcaa tgggaaatgg 180
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<210> 3398
<211> 284
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700557658H1

<400> 3398

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acatggacat taacgagatc gatgttcctt cattctttct ctgccccatt tcgtagaata 180
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catggctgtt ctgaagaaa aacacgacat gccccatgac caaa 284

<210> 3399
<211> 278
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700557659H1

<400> 3399

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gggcagctgg aaatcgtacc gagtctgcga aagaactgaa gaagatgata gcctcaacac 180
cttagttgta actaatttgg tggaggacat taaaggggag tcaactgata tttcctctga 240
agaacctgtg aaagaggact tacacaaact gacgatga 278

<210> 3400
<211> 226
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700557660H1
<400> 3400

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<210> 3401
<211> 292
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700557661H1
<400> 3401

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atgctactaa attatgttcc agtttatgtg atgctccac tcggagttgt caatgttgac 180
aatgtttttg aagaccaga tggccttaaa gaacagctct tgcagcttcg agctgcgggg 240
gttgacgggg ttatggttga tgtgtggtgg gggatcatag aactgaaggg gc 292

<210> 3402
<211> 295
<212> nucleic acid
<213> Glycine max

66165160

<223> Clone ID: 700557662H1

<400> 3402

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atgggaataa acacacgtac actagaaatc accgttatct cggcgaaaa cctccgcgta 180
acggaggacg cgtacgtcgt cgttcgggcg gagtccttaa actgctgcac cacgagaacc 240
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<210> 3403

<211> 287

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557663H1

<400> 3403

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aaaatgatgt gttgtggcta ttaaaaacag tgtgcaagat tttgggggct atcgaggttt 180
gttctttttt tcttacgttt gatttttaca gcaggaaatg ctcttgaaaa tttgggtgca 240
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<210> 3404

<211> 285

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557665H1

<400> 3404

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tgaaaactgg ctatggtgag cgttcttcgg aggtaaaatg cgcaagtttt aggcttgctg 180
tggaagcaca caacatccga gcctttaaaa ccattcctga agagtgcgnt gaaccaacaa 240
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557667H1
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 caaccgggttc ggggttctcta ctgcggcgtg tgcagtttgc cccccaata ctgcgaattc 180
 ggatccgatt tcgagaaatg caaacctgg ttgatccaaa acgtccctga cctataacct 240
 gatcttctca aagaagagaa ggaagctgat aaagttgctg acaaac 286

<210> 3406
 <211> 269
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557668H1
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 gtttgacaag caggcactac cagcagatct aattagaagg ggaattgctg ttgaagatcc 180
 attttctcca catggcttaa agcttaccat tcaagactat ccttttgcca atgatggact 240
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<210> 3407
 <211> 286
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557673H1
 <400> 3407
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gggtcagcat gaggaagacc gtcaccaagc aggcctcctc cggaagccca tggtagcgcc 180
cagaccgagt caagtacttg ggccattct ctggcgagcc cccgtcctac ctactggcg 240
agttcccagg tgactacggc tgggacactg ctgggtttcg gccgac 286

<210> 3408
<211> 284
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700557674H1
<400> 3408

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tgagaagaaa atcaaactac aatcttcac caggaccctc tcttctcacc atcattagaa 180
actctaaaca actctataaa aagccacagc agacaatggc caagcttgcc aaaacctatg 240
gccccataat gcgtttcacc ataggccatc aaccaccata gtaa 284

<210> 3409
<211> 189
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700557675H1
<400> 3409

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gaggaagagg agcaatctcc agaaccgcac aagtcggagg aatctcccta cgaaatgttg 120
cgcaacagca aggcttcctg ngagagcatc gtcgccgata tgctctccat taaanaagag 180
ggtaaacc 189

<210> 3410
<211> 286
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700557676H1
<400> 3410

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 ctaagagcta tggatgaatcg atgccagctt ccacagagct tttcaggggtg ccattgatat 120
 cattttctcta tgagagggggc tggcgtcaaa ccttttctgt gtgggggtggg tttcctgggc 180
 ctgagaaaga gtttgaattg atgaaggggt tcttaaagcc aatattggga ggaaatatca 240
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<210> 3411
 <211> 102
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557679H1
 <400> 3411

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<210> 3412
 <211> 190
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557681H1
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 gtatctttct cctggagata ttcagagtca caaggtattc anaaaggaca tcatattcat 120
 tattgacatc agtggtagta tgcggggaaa gctaattgan gacacnaaga atgcactatt 180
 gactgctctc 190

<210> 3413
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557682H1
 <400> 3413

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3414 3415 3416

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ccacataggt agtagaattc tcataacaag tcgcaacaaa gaggtggcac actatgctgg 180
aactggcgt 189

<210> 3414
<211> 97
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700557683H1

<400> 3414

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ctatatgtag tgacaagact gggacactaa caaccag 97

<210> 3415
<211> 191
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700557684H1

<400> 3415

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gtatattttg ggaggcatta nagnctagc ttggtngctt gnnntgtgna tatatggnnc 120
tgtatcaaag aggaaggcca nnagtccagt acatgcagaa antaatgggtg gtagtattat 180
aaggacatca c 191

<210> 3416
<211> 100
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700557686H1

<400> 3416

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ntatnttgtc acgcaattcc atagtctata ntcacctgtg 100

<210> 3417
 <211> 283
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700557688H1

 <400> 3417

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 cctatccata cttcgtatcg gtaatccatt tattcgtggg agtggcgtac tgtttggtga 180
 gctgggccgt gggccttcca aagcgtgctc ctatagactc caacctactg aagttgctca 240
 tccagtggct gtgtgtcatg cattaggcca tgtgaccagc aat 283

<210> 3418
 <211> 284
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700557691H1

 <400> 3418

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 caagatggtg ggagtgttg tgggaacttt gttggtgggg ttggctgcct ctgccaagtt 180
 tgatgaactc ttccagccca gttgggctat ggaccatttc atccatgaag gagaactcct 240
 caaactcaaa cttgataact attctggtgc tggatttggg tcta 284

<210> 3419
 <211> 289
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700557692H1

 <400> 3419

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 ctgaacttaa gcgcgtgttc ttccattcag gcaagtccac aatcctcgtc ataccgagt 120
 cctgtaccat cctaccatgc tagcccaacc tcttctcgt tcccaagccc cagcgcatt 180

gacggaaacc acccttcttc ctttctcatc ccattcatcc gcaacataac ttccatcccc 240
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<210> 3420
<211> 189
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700557694H1

<400> 3420

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aatgtaaagg ccaaaattca agacaaggaa gggatccac cagatcagca acgggtcatt 180
tttgctggc 189

<210> 3421
<211> 176
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700557695H1

<400> 3421

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ccatttcatt gcacattngc gcccttctca gttctctcaa tcanatccat ggcnacaaac 120
gcnactgcy aaatgccct cacacaccan cctcattggt tctctccaaa atccgg 176

<210> 3422
<211> 209
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700557701H1

<400> 3422

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ttctacaatc tataaataat cagatagata atgtcaagcc cttgttagct ttggcgaaat 180

attgatttgg ggatggaata tgaaatoga

209

<210> 3423

<211> 283

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557702H1

<400> 3423

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accgaaaccc taaacccttg tgaataagac gaatttgttc ntcccttgat tagataagaa 180

agagtttagat ttagattcag ttcgtttacg cttntatntg ttgtcttcta attagatttg 240

ggagtataag tgaaacccta ggtcttatgg gaagttagtg aat 283

<210> 3424

<211> 282

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557704H1

<400> 3424

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accgcatgct agtgctaaga tggcatgtga tcaaacacac agattgntct ctactaactt 120

agatgaagtg agtcaagggt aaagtacaca caatagagga gtagctaattg attctcctcg 180

catccttaat gttcatgatg tgtatgaagt tccacaaact agtgaaaatc atgaagtcag 240

tgaacatggg ggaaaaaggt ttgagaaatg gagttctgat gc 282

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<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557705H1

<400> 3425

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 tttcaaaact ccaaccctcc gttttcagaa atctccattg tcacgccccca tcagagctct 180
 atcttctctcc gccctcgctcc aaacatctan taccaaggcc actgaagacc aagggtgtgaa 240
 gcctcaatgg aaggccacga tagacttcaa gtggataaag gataac 286

<210> 3426
 <211> 284
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557706H1
 <400> 3426

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 tccaaaaggg tctttctacg tctccgcctc gagcaccaag aaaatcctaa taatgggagg 180
 caccagggtt attggtgtgt ttttgtctag gctcctgtc aaagaggggc accagggtgac 240
 tttattcaca agaggtaaag cgctgtcac tcaanagttg ccag 284

<210> 3427
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 <213> Glycine max
 <223> Clone ID: 700557708H1
 <400> 3427

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 gnaataatgc nagtgtaaag atgagtttta gttcagtgaa ttgtaggcct ntagcactna 180
 anaagtgagg aaagcacggt taagaaacnt ttagttgttt tcattttctg tttccacttt 240
 ngttacaaga atattggtgt gtgtttactt na 272

<210> 3428
 <211> 281
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700557709H1

<400> 3428

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 cttatgctgt ggttgagatg ctccggtatt taatacttgt gntgccagat acttttgctg 180
 ctctggattg ctttccttta ccacccctctg taatttcaca tacaatgaat gatgggagtt 240
 ttgtactaaa atcaactgaa gctgcaggga agatatatta t 281

<210> 3429

<211> 283

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557710H1

<400> 3429

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 ccctcccttc agatcaacct tccaaagggc ctcatagcct caccgcgaaag cactaaactt 180
 tccccgcga cagcaatcgc aggagcaata ttcacaaccc tcggaacctg cgacgccgca 240
 ttctgtgttc aacaaatagc cgacatagca gaaggcgaca acc 283

<210> 3430

<211> 278

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557711H1

<400> 3430

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 tcttcagagg atttccattc tgcattgcc ttccagacct atgcagttgg aagcagtgga 180
 ggatacaaga aggggtgtgnc agaagcaaaa ctgaagggtg ccataaacgg gtttggaagg 240
 attggaagga nttcttgagg tgctggcagg tcgcaaag 278

<210> 3431
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557712H1
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 agagagagaa aacnnnnnnn nnnnnnnnnn nnnnnnnnnn ntgagggaac catcgtcggt 120
 gggattcgaa ngcaacggcg tcgtttcttc gccgccgcaa gctctcatcg agagactgaa 180
 agactacggc caagaagacg ttttcgccct ctggtacgag tctccccga ggaacgcgag 240
 tttctcgtca aggacntgag agtttagatc tttcgagaat 280

<210> 3432
 <211> 281
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557713H1
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 gtttattgct ctgccgctgc tcaatcacca ccaccagcat ggccaggaac agctattccc 180
 gagcctctga tttcaagaca tgggatgggc aaaaacctat ttctgtctta ggatctacgg 240
 gttcaattgg aactcagaca ctgagtatag tggctgagtt c 281

<210> 3433
 <211> 283
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557714H1
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acatcatccc cancatggac attgcaagac tattggcgcg gcggtggtgtg attggtacca 180
tattcactac cccaaagaat gcatcacgtt tcaattctgt tctttctcgt gctgtttcat 240
caggcctcca aatccggcta gttcaactcc actttccatc caa 283

<210> 3434
<211> 286
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700557716H1

<400> 3434

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ttctcaatcc cccattgcca ttgatcaagc atcacagttt aacagtggga gcttggtggg 180
acagtcattt aaccatcaac cacttggtca aggagtacat gcttcacaga gtgctgtttc 240
tcaaccgccc aaggacaagt ttgagacaaa atcgacagtt tgggca 286

<210> 3435
<211> 285
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700557718H1

<400> 3435

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ataccaacaa cactactcag ctgagcagtt attatatcgt actttcacat gaaagtgtca 180
taaaggcaga taaaagcata tacattcaac acacacgacc ataaggctca agcacaaggc 240
aatagtatga cttaaacggg gacacatttc agcaattatt cttaa 285

<210> 3436
<211> 276
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700557719H1

<210> 3439
 <211> 282
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700557722H1

 <400> 3439

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 agactcgatt ccaagtgatg acctgttaac aaaaganaag ttcaaaagat acaagaggca 180
 aaaggagttc atgtgaaggc aattcttatc taataagggt gtagttcgac ttgtgcaagc 240
 ccaaggatat gattatatga agactcaaaa taaagtgtag aa 282

<210> 3440
 <211> 214
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700557724H1

 <400> 3440

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 aagcgcccca ccaccaagta atatgggtta tatacgtgtt ccatatatac caagagagtg 180
 gtgcgtgggt gtgaagaatc tatatattgc tatt 214

<210> 3441
 <211> 276
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700557726H1

 <400> 3441

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 actaataata ataattagga attcatattt cttaaattaat gtctaattct acattaanag 180
 aatgggttact atagccatcg attcgtttta gttctatcaa ttctatatga ataaatggat 240

tgttttatttc aacaananca ngaaaatgaa natttc

276

<210> 3442
<211> 136
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700557727H1

<400> 3442

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tcgccatctc cggccc 136

<210> 3443
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<212> nucleic acid
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<223> Clone ID: 700557728H1

<400> 3443

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accactgcag aagcactgaa attgcttgat tcatgctggg ctgacataat tgagctaggc 180
attccatact ctgatccttg gcagatgggc ctgttatcca ggctgctgct acaagatctt 240
tagcaaaggg gaccaatttt aatgtgatta ttgatatgt 279

<210> 3444
<211> 278
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700557729H1

<400> 3444

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gangatgaga gagtttgcgt tggatatgct gagctggggt acagggtgccg caaagaatcc 120
ctgtgatcnc gaagttgggt caatacctga aaaggcaaag tggaagtctt acagtaatca 180

ggaggtgtgg aaacaggtgc tgttgtttcg agaatcagcg tttctcaaaa gaggttctga 240
tccaagcagt gaacaacgta gctggcagag tcagaaga 278

<210> 3445
<211> 283
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700557732H1

<400> 3445

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cgtagantcc agaaagcaca gtcccaagct tctaattgtac cacatactga ttctcagcac 120
ctgtcaatgt ttggagcctt gcctatgagt tatgttcctc cgtataatgg atatgcttat 180
caggctccgg gaggttatgg cctcatgcca taccgcatgc caccaatgca gagtcaacat 240
ggttaccata atgtgatgcc tcacatgaat caagtaaag cat 283

<210> 3446
<211> 283
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700557733H1

<400> 3446

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agcatgcttg caatgaatgc aagggtactg gagaaaccat caacgacaga natcgctgcc 120
cacagtgcaa gggagaaaag gttgtgcagg agaaaaaagt ccttgaagtt attgtggaaa 180
agggaatgca gaacgggcag aagattacat tccctggcga antgntgaag cgccagacac 240
aattactggg gatattgtct ttgtccttca gcagaaggaa cat 283

<210> 3447
<211> 279
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700557735H1

<400> 3447

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 gttggagcta aaaagggtcac atgctccctt caggctgac ttaaggactt ggctcacaag 180
 tgtgttgatg ctacccaaat tgcaggattc gcccttgcca cctctgccct cgttgtctct 240
 ggggcaagtg ctgaaggtgt tccaaagagg ctaaccttc 279

<210> 3448
 <211> 280
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700557736H1

<400> 3448

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 ctgcttctgg aagattcctt gcngcngctt annngattt ggatgcaccg canctcaagt 180
 ggcaaaagat ggctcctgct cccgtccctc gccttgacgg agccgccatt cagattcggg 240
 atctcctctt tgttttcgcc ggctacggca ccacgattt 280

<210> 3449
 <211> 279
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700557738H1

<400> 3449

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 tctggataag cttggctcgg cagttaaacc tgaaaaaagc agtggggggac caaggagcat 180
 tgctgcattt ttttcaaaaa ggtgctgccc ccgactgggg aaggttcgaa acctggtgaa 240
 acttcaccac tgccaccctt gaaatcatct tctgccatt 279

<210> 3450
 <211> 277

<212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700557739H1

 <400> 3450

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 aagaggaagt tgcctagtgt ttgagatgtc tgggtgttctt ctttgggtga gttgtggacc 180
 caaggagaac cccatctcca ttgttgggtct tgctggaaga ggtggcagaa gccagaggag 240
 gtttggactg tgcaatggga tcagttttgc aagcttt 277

<210> 3451
 <211> 280
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700557740H1

 <400> 3451

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 aaccactatc cttgtcgcaa attgtggaga acatagaaga cgcaccctcc ccagatgcct 120
 ctctttccca gagagtcctg agagtgatgg tgcgcagaaa gatcttcagt gcacaagaat 180
 cagagacagg agaaccctct tcggcttgac acgagcctcg aagtggatcc ttcgcgacac 240
 gaaaatgacc ctagcaccca tgttgctgct ggagaaccac 280

<210> 3452
 <211> 270
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700557741H1

 <400> 3452

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 gtcttattat tattagggnt tggcgattca gagagaaaga gaaatgggag aacgaaaagg 120
 aatcccaatt gctctggggc tcttggcgat gctnctcttc ttcattgott cttcctcttc 180
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cgaggatttt gacggacggt ggattgtgtc 270

<210> 3453

<211> 275

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557742H1

<400> 3453

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aacactctag gctgcaggct tggcattcca gttgacagag aaattatcta tccttgaga 120

gagtaatgaa agagcaacag aggcaaggat aggtgggtgt ggattggatc tgcctctaag 180

gcgcagagat ggccaggact atgccgctgc cgctgctggt agtggaaacag cctcgtcagt 240

ggtagatggc aagacctgtc cttttctcag ccaag 275

<210> 3454

<211> 279

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557744H1

<400> 3454

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cataatcaga ttgggcaaat tcaaagtcac ccatttcaga accatgggtg anactcaaaa 120

cccacttccc aaaaccactc ctttcccaa caagtgtgaa cttcacttgc aacaagaatc 180

aatttttgca cggtaaaaac aggaacaggt tggatttcag gacttgggtc attgctggtt 240

ttgattatgg aaactttgaa gggcctcagt ctgtgcttg 279

<210> 3455

<211> 276

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557745H1

<400> 3455

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gccggaggag tggcggtgac accggcgaag agaggccgtc ccttcggcag cngtaacaac 120
 agtgcctccg ccgccgcttc cgcccgcgga ttcggcggtt tccgtcaaac tccttggtct 180
 tcccttcacg ttcacaactc tttgccgatc agaacaataa aagaattgtc ttggtctctc 240
 aaagtgggtct gaagantagt gactgggcgt tgaata 276

<210> 3456
 <211> 279
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557746H1
 <400> 3456

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 gccaccctct acttcatgac ccgtccaagg ggggtgtact tagtagattt tgcattgtac 120
 aagcctgacg tggattgcac gtgcacgcgg gagattttcg tggagagggtc tgggtctcaca 180
 ggctcattct cggaggagaa cttgtccttt cagaagaaga tccttgagag gtctgggttg 240
 gngcagaaga cgtatcttcc gcccgcaatc ttgagtttg 279

<210> 3457
 <211> 277
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557747H1
 <400> 3457

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 gagcacacaa tttggccaag ttgcaatatt ataacttgac ccattcagca cgattactcc 180
 atgggtggatc agtaccnata tttggtcgtg gtgaaaatga ntaggtgaga ctcacgtacc 240
 agtatgggac gctgatgaga gtgatgctgc ctcagat 277

<210> 3458
 <211> 275
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700557749H1

<400> 3458

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actttgacct ctatcttatt gttgtatata ttgctcatgt taactgactg atttgtttat 120
atattgttta cttataatct cttttctatt gttgtgtata ttnatcattc tatttgaaga 180
tctgtggtgc tggaaaagta aggcactggc taattttgtt gttcctgaga ttgaacacta 240
nataagtttc accttttagtt attacaatat tattg 275

<210> 3459

<211> 277

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557750H1

<400> 3459

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caacacttca cggcaccctc ttcctcttcc ttacgcctcc tcaatctcgc aaagatggaa 120
ggaagtgaga tcagttagca agtagtaggg gaggatttgg gagcaaagaa gaaagttttt 180
gtagctggag ccaactgtag cactggcaaa agaatcggtg agcagttact ggcaaagggg 240
tttgctgtta angctggggg tagagacatc gacaagg 277

<210> 3460

<211> 276

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557751H1

<400> 3460

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tcatgaagaa acaaggctag cagttgtctg tgaaagggcc tttcttcaga ctttggatgg 120
gtcttgccgc actcctattg cagggtagtc ttgtagaaac gaggatggca attgtttggt 180
tagaggatta gttgcttccc ctgatggaac cagagtgtca gagacatcca gggttgggtcc 240
atatgctgtt gaagatatga ttgagatggg taagga 276

<210> 3461
<211> 276
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700557752H1

<400> 3461

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tcaggccgag ttctgatggg gggataaggt tgatgagttc atattgttag gtgctgttcc 120
atttcttatt gatgttcccc gcttaaagga gcttggtgtc cgtgggggtca tcacattgaa 180
tgantcatat gagactttgg ttccaacgac attatattat gctcatggaa ttgatcatct 240
ggtgattcct actagagatt actgttttgc tccttc 276

<210> 3462
<211> 255
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700557753H1

<400> 3462

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agtgatggca tctgtggccc tcaaacctgc ccctttcact gttgagaagt cctcagtgag 120
aggccttccc tctctctcaa ggaactcttc ttcattcaga gttgtggcca gtggcaagaa 180
gatcaagact gacaaacctt atggaattaa tgggtggcatg gctttgaggg atggaactga 240
tgcactctggc aggaa 255

<210> 3463
<211> 277
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700557754H1

<400> 3463

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ggctcttttt cactacaacc tggatatntct atgtggcacc gtgcttcaag aagttgcaac 120

aagcgcgtta gagcatngtg tgatattagt ggagnttntt ctanaatttg tgtccatgga 180
 gaaaaattct cttgattata gtcctttgct ttctcctcgt ggtgatgaaa atggaagtga 240
 gacaacngca tctcctcttg tgtcagctac taaangg 277

<210> 3464
 <211> 276
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557755H1
 <400> 3464

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 gggagggntt ntagcttcta gcttggtgct tgtgtttggt gtatatggnt ctgtctcaaa 180
 gaagatgacc aaagggttcag tagtacatgc agaaagtaat ggtggtagta ttatacggac 240
 atcatcagag aatagaaacc accatcaaga agtctc 276

<210> 3465
 <211> 278
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557756H1
 <400> 3465

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 ttctggagct ggagcttcag ctcccagttc agccttcttt gggaccagct tgaagaaggt 180
 tattgcctca aggggtcccca acagcaaggt ttccggtgga agcttcaaga ttgttgctgt 240
 agaagagaag aaagagattg aagagaccca gcagaccg 278

<210> 3466
 <211> 276
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557758H1

<400> 3466
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 ggctgatgaa ggtcaatatt tcagatcaga aatagctcta ttgaattact cggatgcaat 120
 cttcaaacc cacttttctt ctctgttgat acacattgat ccactcataa tacccaatgg 180
 ccacacttgt tctgcatcag aatctgatcc atcaccact tctcagcacc atcagcagga 240
 gcagcatccc aaagatgcct ggcttccaat cactga 276

<210> 3467
 <211> 271
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557759H1

<400> 3467
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 gaagagtggg agatttatgt cgtcttggtt ttatttggaa gtagtgattg gagctttgtt 120
 gaagctcggg ttcggttacg ctgtatttgg ctgcatgcta ctctggctgg tgttgaattc 180
 tgctgtttcg atgagtttga ggtcaaaaag gacatgttat ggagctgtng tttgttatga 240
 aggcttcaga taaannaaat ctcttgtttc t 271

<210> 3468
 <211> 277
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557761H1

<400> 3468
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 agggaaatag atggaagctg tgtgtggaag tggaagcagt gtttgggtca catnctccct 120
 tacacgnnnc acccaagatc acantccctn tattccgcgc cagttaccag cacctaacag 180
 catttccttc acaatccctn ttttctccta tcacccttct cgctatgcta atgctagaac 240
 cctccgcgcc agaacctnct ccaaaccat tttcctt 277

<210> 3469
 <211> 279
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700557762H1

<400> 3469

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 gatttccgtt tgangctgga ctcttcaac caaaagattc aggagaccag cgtgaggctt 180
 ctgcacttcg tgatgagggt gatatgctgc aggaagagaa tgaaagtatt ctagacaagc 240
 tcagactcga ggaagagaga tgcaaggntc agaggccag 279

<210> 3470
 <211> 279
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700557763H1

<400> 3470

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 tactggaaga atatttcagt gtcaggcttt tggacgaggc attacagtgt gtggaggaac 180
 taaaagctcc agcttattac cctgagtttg tcaaggaagc catttccctt gcactagata 240
 agagtccacc atgcgttgaa cctgttgcaa atctttttg 279

<210> 3471
 <211> 280
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700557764H1

<400> 3471

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 tgccctcaag ttgaagggaa ttcaatacaa gttttttgaa gaaaatttgg tcaacaagag 180

tgaactgctt ctcaaataca accctgttca caagaagggt cgggtgtttg ttcacaatga 240
gaagcccata gcagagtctc ttgtgattgt tgaatacatt 280

<210> 3472
<211> 277
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700557765H1

<400> 3472

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acaattctga ctctgatact gatantcgtc ctgatatgtg catggaaggc gctgatctgg 120
ttatgggtga ngccaaagag actagaaaag ctgctaagag agcaaggcct tcaagggaat 180
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tccaaaccca tgaatctctc tgatgacata ataccac 277

<210> 3473
<211> 275
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700557766H1

<400> 3473

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tctttaggca caacaagaca gaatcagggc attttgaatt taattgaggc caaatgggat 180
gatattgttg ctcaaagcc tctcaagatt tggtatccag cactggaggg tgaggaatgg 240
cgtataacca ctggctgtga cccaagaac acgta 275

<210> 3474
<211> 274
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700557768H1

<400> 3474

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gttggtggag tcatgacaaa gttgattccc agaaacactg ttatcccaac caagaaatct 120
caggtgttca ccacctatca ggaccagcag actacagtct ccattcaggt tttcgaaggc 180
gagaggagtc tcacaaagga ttgccgcctt cttgggaaat ttgatctgtc tggaattcct 240
ccagccoccaa ggggtacgcc tcaaattgaa gtga 274

<210> 3475
<211> 275
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700557769H1

<400> 3475

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gatcagcacc tgcatttttg ccatcaatgg tgacacagat ccaaattgaca ttacttctct 180
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ctgtggacag tcttggcaag gcatcacttg ctctg 275

<210> 3476
<211> 254
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700557771H1

<400> 3476

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caaaaaaaga aaaaaacaca caaacttaac ccaaaaactgt aaccccagta tgccatgctt 120
cacaccacac cattctcttc tctctctctt tctntctatt ttcttcttct ntctctccgt 180
cancgctgca agaactctt ctttccattc cttacgtatt caagatggaa ttgagggtgg 240
tggcgagggga gaac 254

<210> 3477
<211> 276

<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700557772H1

<400> 3477

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cgcngccatg ggcacgaggg cagcagtggc ggcgccgcgc gtttttcggc ggtttttctg 120
cacaaactca gcctctcctt ctttccccctt cgttctctac cgcctctctg gcgccacccc 180
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acgtactact acagaaaggc ttcgagagga gtttgc 276

<210> 3478
<211> 276
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700557773H1

<400> 3478

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caattcctca gtaacatctg cannaagtct tctccttcac catgccacca aagcctttag 120
actatgggtc aataaatgaa aacgtgaaga agagtcaata tgctgtcaga ggtgaattat 180
accttcgagc ttctgagctt cagaaagagg gcaaaaagat tatatttact aatgttggca 240
accacatgc attgggacag aaaccactga gcttcc 276

<210> 3479
<211> 272
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700557774H1

<400> 3479

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tctttgttcc tgtgtctcca agggctgcat tgagttgtta cttaggcacg gtgtggaaat 120
caaggggaaa acagcagtga taattggaag aagtaaaatt gtgggggttac ccacttctctg 180
ctattgcagt agaggcacca cgcaacagtt cagcgtgtta cacgcgtata caaagaaccc 240

agaacatata ncttctgaag cagatattgt gg

272

<210> 3480

<211> 269

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557775H1

<400> 3480

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ccttctctct attcgacact gacggagacg gtcggatcgc tccgtcggag ctggggatcc 120

tgatgaggtc tctgggaggt aaccgcacgc aggcccaact caaagccatc gtggctgaag 180

agaactcacg gcccccttcg acttcccccg attctcgatc taatggccaa acacattaaa 240

nccgaaccct tcgatcgcca actccgcga 269

<210> 3481

<211> 270

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557776H1

<400> 3481

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cagattgtgt gaagatgggg gctggtggcc gaactgctgt tcntoctgcc aacaggaagt 120

cagaggctga ccccttgaag cgggtaccat ttgaaaaacc tcagtttagt ctcagccaga 180

ttaagaaggc cattcnacct cactgtttcc agcgcctctgt tctccgctca ttctcctatg 240

ttgtttatga ctcaccatag ccttctgcct 270

<210> 3482

<211> 273

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557777H1

<400> 3482

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ccaacatggt aacagggttca atcccagatt catttcagga tttgggaaat ctanattact 120
 tgtttctgac taacaattct ctaagtggac caattcctga ttggatactg agcataaaac 180
 agcaaattga tttatctttg aacaatttca cnaagacttc tgcanataat tgccaaaggc 240
 cggatctgaa cttagcttca agcctctctc gca 273

<210> 3483
 <211> 274
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557778H1
 <400> 3483

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 ttttttctct aggtttttcg cgatggcgtc gaagcgaatt ttgaaggagc ttaaggattt 120
 gcagaaggat cctccaacat cttgcagtgc cggctcctgtt catgaagata tgtttcattg 180
 gcaagctaca attatgggtc ctccagacag tccctatgct ggaggtgttt tcttagtgac 240
 tattcattcc ctccagatta tcccttaagc canc 274

<210> 3484
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 <213> Glycine max
 <223> Clone ID: 700557779H1
 <400> 3484

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 gaagaaaacc tggaaacacc cgacatnnaa tcttcaacac aggagttggg cnccgtagac 180
 actgagacac cactaatcca ttgaagttct tggggacttt tactgtttca atcatcaatc 240
 aaagttgcat gatt 254

<210> 3485
 <211> 274
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700557781H1

<400> 3485

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gaaaaccacc cactccaact ccaaccagat tcagcgtaa tgctctgttt ggtgattggg 120
gatttgggaa tagaacaagg aactcccttc agcagcaatt cacgttcact cttgctgata 180
gtaaagtgat aagcgtgtcg gttgtttctt cgatctcaga tgttgcatcg agcgaatggg 240
acgcttgtgc tttggatgcg actggccctg acaa 274

<210> 3486

<211> 204

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557782H1

<400> 3486

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cattctctct gagatcggcg acaaaacttt ttttgagct gcgatactgg ctatgcgaca 120
cccaagacgc ctagtcttat cnccgttgct tatcggtttt gattgtgatg accattctct 180
ctgttcttgt tggctgggct gctc 204

<210> 3487

<211> 272

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557783H1

<400> 3487

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tcaaaccatg ttgctcatgt ctagtgtctc tagcagttat tccgtggatt tgaagaaaga 120
ccttttcttc caattgcaga gtcaaagttt aaggcctaag ttctctcagc tntcattcan 180
cccanttcca tcatcaantt cttccttttc ttcaccccggt acattcacaa ctctggccct 240
cttcaaattc aagaccaaag ccgctcctgc ta 272

<210> 3488
 <211> 273
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700557784H1

<400> 3488

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 ggccaagatc caggacaagg aaggaattcc cccggatcag caacgtctca tcttcgccgg 180
 aaagcagctc gaggacggcc gtaccctcgc cgactacaac atccagaagg agtcaaccct 240
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<210> 3489
 <211> 273
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700557785H1

<400> 3489

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 agagttcaag cggaagttgg accggatggt ggagataaac gagaagatta ttgctgttgg 180
 ggagagtgat gacatagcgg tggtaagaa cttgaagagg atcccactgg ttgctgcatt 240
 ggtgtctgaa ctcttggtcaa catatctaata gcc 273

<210> 3490
 <211> 273
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700557786H1

<400> 3490

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 gtgaagcaag cctctgcttc cccaacgct aacgcactca cttccatcct cgtccaagcc 180

acttctcacc ccaacgtctt ctctttctct caatttctcg cctccctaa cttctacag 240
cttgaagcaa ctgagaattc tacttatctt gat 273

<210> 3491
<211> 271
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700557787H1

<400> 3491

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agggggaacag caaaatttaa atatagctca aaatatttgt totatcttag aacaagttga 120
tccaattaga accaactatt ggatttggcg caagagcaga ctctctctat cagcttagta 180
atcaaagtaa ttaaaggaca agtctgtgtc atgtgtactt tatacctagt ttattgaaag 240
tggatgttta tttttttgtg atgttgtcat t 271

<210> 3492
<211> 272
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700557788H1

<400> 3492

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antttccagt ggagtagaac acattncatt caattgcant tttttataat ttcatatatc 120
ctccaatatt gctngtgggt agcactcaca aganacaggc tcaactacca gacaaatttt 180
ccattcccg catctctctc aaacctacgt accccagata ccctaaattc gattcataca 240
cataacacaa cacaacctcg ttccttgctg ac 272

<210> 3493
<211> 265
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700557791H1

<400> 3493

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tatttttgtt atttctctct tctttgtgga ctttttagcaa ctatattgtt tccantgtcc 120
aagatgttgg gagtgtttgt gggacttttg ttggtggggg ttggtgcctc tgccaagttt 180
gatgaactct tccagcccag ttgggctatg gaccattcat ccatgaagga gaactcctca 240
aactcaaact tgataactat tctgg 265

<210> 3494
<211> 269
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700557792H1
<400> 3494

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gcgatgatga agatgatgaa cccaagaagg aggaagaagg agacattgag gatgttgacg 120
aggagaagga gaaggattcc aagaaaaaga agangatcaa ggaggtgtct catgagtggc 180
aactcatcaa caagcagaaa ccatttggct gcgaaancca gaagagatca ccaaggatga 240
atacgctctt ctacaagagc ctcacccatg 269

<210> 3495
<211> 270
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700557794H1
<400> 3495

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accgganttc cgccncgaga ttcccgcga ggaagttgaa gtttccgacg atgacctcca 120
attcgtcaag gagaaccgag ctatgcctct tgtttccacc ttggacaccc gtncaatcac 180
caagcatgtt acacgggttg ctgatgcaa agacgatgca ttggagaaac tttatgagaa 240
acgcatgcaa aagaatgctc tcaagaaaga 270

<210> 3496
<211> 274

<212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557796H1
 <400> 3496

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 nnnnnnnnnn nnnnnnnnnn nnnnngaagt ggcattgttct gacatgggtg agttggagct 180
 gctacccagt gacatcttga tgcacattct gagacttttg ggtccaaaag aggctngcaa 240
 agttgagtgt ggtttgcaag gctttgagat ccct 274

<210> 3497
 <211> 296
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557802H1
 <400> 3497

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 aatgaatctt tntctctcga aaccctaacc aatgggtggga nccaaacggn acttctctccc 120
 actgatctna nctcctcgn cgccttcatn ttctacagct tcnacaactn ntatctnatt 180
 gttgaatccn ngaatnaaac cctanttcca antttcccta accnanatng nanccaatnn 240
 tcncccaatt tcanttttgt gatnaaggct ctaggggttaa anagnntnga agngnt 296

<210> 3498
 <211> 302
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557803H1
 <400> 3498

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 catctcaata tgatgttagg ggatacccaa caattaagat tctgagaatg ggggaaagaa 180
 tgttcaggaa tacaaaggct cccgtgaagc agatggcatc gttgactatt tgaagaacca 240

aagtggctctg cttcactgaa tttaaactctg ctgatgaagc tangctttnc attggtgaaa 300
na 302

<210> 3499
<211> 313
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700557807H1

<400> 3499

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anagacgagt cttcttctgt ttatagttcc tcagaagatg aagnggcgga agagatanng 120
aaggagctgg ctgatgtaac atttgaggag ttgcagaaag ctcgatcgan tnggacacat 180
ggcatttttc cagaancecc aaagatgaca aanaattaa angggccaan angnantang 240
ccaatggagg ctantannga agaagccagt ttctgggntt acngaggtca tccaagctcc 300
aaaganggtt gtc 313

<210> 3500
<211> 303
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700557809H1

<400> 3500

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ccctgccac tactgtgctt ccctcagtc caaatgggtc aattccaaca acacacattc 120
tncggcgttt atcgtaccca cttcgaggac tccgagggtt caatgctcgt tgctcttacc 180
aaccacccca tcattctgaa tctcagaaca accataatgg gaggtcattt tccttgaagc 240
agtgtgcgat atctattgca ctggcagttg ggttaataac aggagttcta cattggatgg 300
ncc 303

<210> 3501
<211> 302
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700557810H1

<400> 3501

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gcagtgaaca atggcctctg catcagcatc tcttctcaag tcttcacttg ttcttgacaa 120
gtctgagtgg gtgaaggac aaacacttcg ccaaccttct gctgcatcag ttgtgagatg 180
caacccccacc acccatcca ggccaccca tcagagctgg ttcctatgct gatgagctcg 240
ttaagaccgc gaaaacagtg gcttcaccag ggaggggtat tttggccatg gatgagtcca 300
tg 302

<210> 3502

<211> 236

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557811H1

<400> 3502

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ttaattagtc catgcatctg catcttgggc accataagat tgtatataaa ataaattatg 120
gtgtgttgtg tatgttgtgc aagacctgga acttcacctt tctacgtacg tgtgctgtta 180
ggatgcagtg tgcttgatga tgcttnatga atatgcagtg tgctttttta agtcta 236

<210> 3503

<211> 297

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557813H1

<400> 3503

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catgatttat ttggttttca taattaaata ttttgaacat tccgaaccga gtttaggagt 120
aatatgtttt tatgcaacga ataacgaaga gnatcataca cctgcaaagt atctctacct 180
ttctatcacc tgatctttca ntttatctct ctccctcatc agatatttca ctttctcctt 240
gtncctcnna tttcccctgc ctgnntaccg gcctacaccc aaaaatgtgt gaataac 297

<210> 3504
 <211> 298
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557814H1
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 acaaattcta ctttctctga ttccatttcc accatcatca ccatgtccaa ttctgaacac 120
 aacatcatcn ctggaaatgc tggctatgtc ctgaagatgt cctcatcta tctaactaca 180
 tccctcacct cactacatat cgtaatccat tgcaagacaa tccttctat tcagttgttg 240
 aggagcattc tgttgatgtg gatgatacta ttgcgcaaag gtagttgtac ataagaat 298

<210> 3505
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557815H1
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 cggctgcgga ggctgcaaga tgtaccaga cttgagctac actgagtcaa ccaccaccga 180
 gaccttggtc atgggagtggt cacctgttaa ggctcaattt gaggggtgctg aaatgggtgt 240
 gcccgctgag aacgatggct gcaaagtgtg accanactgc tcctgcaacc cctgcat 297

<210> 3506
 <211> 297
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557816H1
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attggaagat ctaacaggaa caggcttctt acnagccgcc caactgtncat catcatcagc 180
ctagacgcac caccaaaaacn gcngncgacg ccgcngnngc cgcngcnann aaaaccgcca 240
ccacnagaac cgcnataacc gccgccacca aagcggttctg gcgaccggaa tcgaagg 297

<210> 3507
<211> 303
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700557817H1

<400> 3507

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ggatggattc tttgactacc tcagaggact tgactgctct gatgttgagg tgtatgctat 180
tcctgaggga acagttgttt ttcccaaggt tcccctgatg agagttgaag gtccagttgc 240
cgttgttcaa ttgctcgaaa caccttttgt gaatctaatt aattatgcgt cattagtttc 300
tac 303

<210> 3508
<211> 298
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700557818H1

<400> 3508

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tgtagtctgc taagttagtt tggttgaagc tgggaatttc aatgagtctc gtgacaagca 120
cgttttgcta gagagaactt ccaagtttca aattagctaa tgctgtagta gatctgaagc 180
tattcctcca gagtgggctg aagctgaaca aatttcatag gcaaatgaaa ggtctgaaag 240
acttgagcta caatgaagga gtggcaggaa caaatcaga agacacagag gagngcta 298

<210> 3509
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<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700557819H1

<400> 3509

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cagaactttc cacagnntca agcnntttan tncgtntccc tcccnccaac gncgcagtnt 120
cngcagcagc nttngnctct ttctcngaag caactcgtag ttcccggact nactnaccgc 180
ntttatcgac tctgcnaccg gccaccgcat ctntacggc gagctctcca caggcgcnaa 240
aacntagntc cgaatctcgc nacaatcctc aaantaacca aaggngacaa agngctcgtt 300
ntctc 305

<210> 3510

<211> 300

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557820H1

<400> 3510

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agctcccagt tcagccttct ttgggaccag cttgaagaag gttattgcct caagggtcnc 180
caacagcaag gtttccggtg gaagcttcan gattgttgct gtagaagaga gaaagagatt 240
gaagagaccc agcagaccgg caaggacaga tggaagggtc tgctatgata tctcagccgc 300

<210> 3511

<211> 301

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557821H1

<400> 3511

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actttgaaag tggacgagaa aagtgatgtg tacagctttg gcgttggtgct gctggagctg 180
ataatagggg ggaagccagt gggagagttt ggagacgggg tggacatcgt tggatgggtc 240

aacaaaacga gattggagct cgctcagcog tcggatgcaa cgttgggtgtt ggcagtngtg 300
g 301

<210> 3512
<211> 301
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700557822H1

<400> 3512

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atatgagtct aaagcagtat caatgggact tagatctctg aagcagacaa ataactcataa 180
tggaactaaga attttgaacc cgggtggatga gctacttaac agaaccctcaa ttaaaaccaa 240
tgcaagtcaa gctatgagga agggacctca aggcagaatg ccaggctaaa aggcngatca 300
c 301

<210> 3513
<211> 293
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700557823H1

<400> 3513

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gatttcttcc accgcgcgaa ggcggtgcgc ctccgcagcc accacgacaa gtacctcttc 180
gcggaggagg acgaggagtc ggtgacgcag gaccgcaacg gtcctcnaa aagcgcacgg 240
tggacggtag aatacgtggc cgaatacgac aacatattcg ctgaagagct gtt 293

<210> 3514
<211> 300
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700557824H1

<400> 3514

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 anctaactgt aaagagtacc taagccagac cctagagcca ggggacatat ctgcaactag 180
 ctttgatgat gaagaggtca caagtgatgg agaatatggt gatggacagg actggggcag 240
 gagggaaacca gagatatatg tcggcatatc gatcatgtcc aatatgcttg gtctcaacaa 300

<210> 3515

<211> 299

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557825H1

<400> 3515

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 gtcttntcaa tcaactcccca cctttggaat tcaagggttt gagcaaggag gaggaagact 180
 cattgctagg gcaagtggaa atatggaggt acatgacatg cttcacggac tccgtggcct 240
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<210> 3516

<211> 300

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557826H1

<400> 3516

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 ctactggtgg tgtgaagaag ccacatcggt accgtcctgg taccgttgct cttcgtgaga 180
 ttaggaaata ccagaagagt accgatcttt tgatcaggaa gctccccttc cagaggctgg 240
 ttcgtgaaat tgctcaggnc ttcaagactg atctgcgttt ccagagccac gccgtgcttg 300

<210> 3517
 <211> 296
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700557827H1

 <400> 3517

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 cttganaccc tanntaccaa gcaatcccca agagtccaaa tatatngata ccatgacaca 180
 atcatggaaa acttctctga gaganctgaa tggctcttga aggaagtacc atggaaggcc 240
 ttttccaaaa tcgtgctgtg tgggctatga natatgctca tttctgtggt agttgg 296

<210> 3518
 <211> 295
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700557828H1

 <400> 3518

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 ccttgtcagt ggattgaagt ggggtggatga ggtcataact gatgctcctt atgcaattac 180
 cgagcaattc ttgaatcgtc tcttcatgaa tataaaattg attatgtcat acatgggtgat 240
 gatcctgctt gcttccagac ggaactgatg catatgctgc agcaaagaaa gcggt 295

<210> 3519
 <211> 293
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700557830H1

 <400> 3519

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 gttcataaca aggcaaggag caaagaggga cttaggagtg cgggtggattc gagaattccg 180

gagatgtata cagaggaagc ttgcaagggtg ttgagaacag cagtgtgtg cacggggact 240
ctccggcttt gagaccaacc atgagactgt ggttcaaaag cttgaggatg ccg 293

<210> 3520
<211> 295
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700557831H1

<400> 3520

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atcttatacc tttccatcat ggaaaatgaa caatgtacca cacacaacat tctgtctcac 180
tcatgtttgc ttcctgtntt atcatgtttc atcgaacatg aactgctgc gattacggca 240
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<210> 3521
<211> 296
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700557832H1

<400> 3521

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nctcattgat gactacagga aggtgatgaa ggattttgct ttgaggtag agaaactagc 120
agagcagctg ctggacttgt tgtgtgagaa tottgacct gagaaagggt acctcaagaa 180
ggctttctat ggatcaagag gaccaacttt tggcaccaag gttgccaact accctccatg 240
ccccaacca gagctggtga aggttcttcg tccccacact gatgccggtg gaatta 296

<210> 3522
<211> 302
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700557833H1

<400> 3522

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 cagagagcaa atcctgtaag tttttggagg tttgcacgga ggtaaacatt gatactctat 180
 ccttgagcaa tctctgtaga ttgtccttgc aatgcaaagc acggcctaata atctgtacaa 240
 aaaaatttaa tcaatcatac actcgttcct tgttcttctt tncgtgaaatt atgcacacac 300
 gt 302

<210> 3523
 <211> 136
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557834H1
 <400> 3523

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 tcgggaaggg ccgganagtc gccgccggcn aagaggagca naaccggcg tcaccgggtgg 120
 cgcttctgct ggcggc 136

<210> 3524
 <211> 301
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557835H1
 <400> 3524

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 aaatctcaac aaatgtgtat gcattcagtg ataagtacac tgacatagcc tccttaggaa 120
 ctctggcaaa gtatactgct ggtcaagtgt attactaccc agctttccaa tcagccattc 180
 atggggagaa attgagacat gaattgagga gagaccttac cagagaaact gcatgggaag 240
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 g 301

<210> 3525
 <211> 300

<212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700557837H1

<400> 3525

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 gttagccacc accaccgcct attctccgcc gccacgcgct tcaattccac tggcagagac 120
 tcgcggcggc aaaggagcgg cgcaaactcg gtccggtgcg ctgacgtaag cacggtcacg 180
 agcgagaatc agcgagtgc ggtgagtaac aggagcgatt cgctggagat atgccgcgtg 240
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<210> 3526
 <211> 303
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700557838H1

<400> 3526

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 gcctcaagtc catggctggc ttccccacca gaaagaccaa caatgacatt acctccattg 180
 ctagcaacgg tggaagagtg caatgcatgc aggtgtggcc accagttggc aagaagaagt 240
 ttgagactct ttcctacctg ccagacctg atgatgcaca attggcaaag gaagtagaat 300
 acc 303

<210> 3527
 <211> 301
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700557839H1

<400> 3527

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 attccaaaag gacgnacnag tccaagcctn aaggggnaag gaacaagcnn cctcaanaag 180

tgtnagtan gggnatngnc aagnttcngg cntaaccnag gncntcctn ccaangattg 240
 cttgttccag ggttccaatg ggccganatn gtgggttgaa gnncaactna aaaggttcac 300
 c 301

<210> 3528
 <211> 297
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557840H1
 <400> 3528

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 ncactacagt ttgcgcagtt gctgagcctg ataggcctct gtggttccca ggcagcaccc 180
 ctctccatg gctagatggc agtttgccag gagattttgg ctttgatcct ctaggtcttg 240
 catctgatcc tgagagcctg agatggaatg tccaagcaga gttgtgcatg cagatgg 297

<210> 3529
 <211> 294
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557842H1
 <400> 3529

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 tttgttattg ctgagatgct gtttagctcc aaccttcttg ctatcgttgg agctggatcat 120
 cagecatctt tgtctcctcg ccgtctttgt ttattcaata caaccactgg agctgctctt 180
 agagaattga attttctaac ttccatactt gctgttcgca tgaatagaca aagactcatg 240
 tccatttaca agacaaagca tatatatatg aaataaatag tctcacaact tgga 294

<210> 3530
 <211> 160
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557843H1

<400> 3530

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aatgccaagg aatatgcagt gnnnggtncc tgttcagtcc ttgcctcaca aacagttctc 120
aagcatttga tnaacggatc caaagtcatt ctcttcattt 160

<210> 3531

<211> 294

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557844H1

<400> 3531

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aaccacaatg ntgttgcttc ttctgctttc tctaggtatg ctcatcatt accatttgca 120
actgtagaag cagaagagat atcaggctct agggctgctg aagttttgaa cctggtgcaa 180
ggtanatggg taggatcttc anattggaat acagttgtag atcctttaaa tggagactcc 240
attattaaaa gttgctgaag ttgatgaaac aggcacgag cctttgtaga aagc 294

<210> 3532

<211> 294

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557845H1

<400> 3532

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atccatggct gcctccgtct ccaactgtcg agctgtcaac agagctcttt tgaacctgaa 120
tggtcttgga octgggggtt cagctcccag ttcatccttc tttgggagca gcttgaagaa 180
ggttattggc tcaaggggtcc ccaacacaaa gatttcctct ggaagttcaa gattgttgct 240
gtagangaga agaaagagat tgaagagacc cagcagaccg acaaggacag tggg 294

<210> 3533

<211> 292

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557846H1

<400> 3533

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 gttcccattht tcttcattcg tcgcgtttta ttttcgattc ttgaggngcg tcgagatctc 180
 cagcggagca tggnggcggg gacaatggcg atgcggccgg tgnngcggtg atgctctact 240
 acgtgctgag cangcggatg gcgcggnagg agngggacga tggcgaggat ca 292

<210> 3534
 <211> 295
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700557847H1

<400> 3534

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 agtccccagt tcagccttct ttgggaccag cttgaagaag gttattgcct caagggtccc 180
 caacagcaag gtttccggtg gaagcttcaa gattgntgct gtagaagaga agaaagagat 240
 tgaagagacc cagcagaccg acaaggacag atggnagggt cttgcctatg atatc 295

<210> 3535
 <211> 283
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700557848H1

<400> 3535

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 aggctttcgc gaatatcggg agtgacatgg caaagcttgt ccctggccgt gtttcgacag 180
 aagtggatgc gcggcttgct tatgacacac atgccattat caggaagggt catgacctgt 240
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<210> 3536
 <211> 231
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557849H1
 <400> 3536
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 cgggtgaaggt cgttcaactc ctcaaattccc aaggactgac acgtgtcaaa gtctacgaca 180
 ccgacccggc agtggttacgg gcactatccg gatccggaat caaagtgagg t 231

<210> 3537
 <211> 293
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557850H1
 <400> 3537
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 gttactgaag aggaaaggag gcgtcgatga acttaacgac gatttccctc tcgcttctcc 120
 ggcaaccaag attcgccgtc tcgacgtga gttgccgcca attttggaag aggacgaacc 180
 gttacctaac gaggagagag ctctcgttct cttnaagct ctgctcnatt ccccttcttc 240
 tttctctctc actcncgatt ctgacttatg aaaggaatta ggaacatcat atc 293

<210> 3538
 <211> 295
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557852H1
 <400> 3538
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 gacactaatt tctgcctctt catgcctctc ttgattcac ttggcaatac cctcaacaaa 120
 aattcatggc aatcacacaa actactaagt tcagggttcag gaaacgggtga catggtaccc 180

cattttgttt tcctggcaca tatagttgat gtgtcatcca gtatgcatgc tcaattcgtc 240
tatagatcct ttgcttcatt gccatacaca acaaggttct tcttgctccc aggct 295

<210> 3539
<211> 298
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700557853H1

<400> 3539

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aagagcagtt cattgctccc aaactcagct ccaagatcat gaagcaggcg tgatccagca 180
gaaggaggaa nagaaggagg aaacgcacga naacaacgcc gccgcgaatt tattcgaaga 240
ggttccganc ttcgaggaan acggcggtga cgacatcgac gacttcgccg gttctccc 298

<210> 3540
<211> 296
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700557854H1

<400> 3540

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agttccactc ccttccccta tgttttttcc ttctcttggc cttcaacaca aaacccctcc 120
tagcagcaga accagagcca gtgggtgata agcaaggga ccctttggag ccaggagtag 180
gggtactacgt gtggccactt tgggctgatg aaggaggctc aactaggcc aaacaaggaa 240
caagacatgc cctctttatg ttatccgtga cccttcatca ttggcacccc agtttc 296

<210> 3541
<211> 298
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700557855H1

<400> 3541

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 aacgacgtat tctctctcct ccactcacct ncaaatacaa atccaaatcc caattctcca 120
 gtcttgctat gggcatcaat ttcgtcctta tctctcactt ctgtttccct ccccanatct 180
 caatctctgg accccaagaa aatctctgat tcttcttccct cctctggcag caggagtcaa 240
 agttgttgtt gcgcgccatc ggtccaacg aagaaagatg cttctatctt ccgcngcc 298

<210> 3542
 <211> 298
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700557856H1

<400> 3542

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 tatcaattcc aacattgtca ataacaaagt tgaatctccc atctngcctg cttccctcca 120
 ttgatctttc ttacattgaa gacagatatg caggctcgcca ggcttggtct tttatgaata 180
 atggtaacaa aagaagttca tcgcaagttc aattatcaag tgatacatca aagatttggg 240
 ttcctcaaaa tccaagaggt gcagaaagat tacctcctgg cattgttgaa gccgagtc 298

<210> 3543
 <211> 292
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700557858H1

<400> 3543

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 taaaacngcc ttggaaggta natatgtgga nccagggcct ggtggtgacc caataagaaa 180
 tcnacaagtc ttgccancag gannagaata ttcatgcctt ggaccncnaa tctattccta 240
 caactgcagc gattgatagt nccanatagt ggtagatagg ttgattggga gg 292

<210> 3544
 <211> 293

<212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700557859H1

<400> 3544

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 agataagggg ttgatcaggt tgttggtgtc catgggagaa gcattaagaa caatttcctt 180
 caaagtgaag acngntttctt gnggtgganc acaatgngtn aatacttttg gggncgngca 240
 agcttgccagt ggatttgcta gctaatacgc ttctttttga ngccttaatt atc 293

<210> 3545
 <211> 288
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700557860H1

<400> 3545

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 atgggagtaa ncacacgtac actagagatc accgttatct ccggggtaaa nctccgcgta 180
 acggaggacg cgtacgtcgt cggtcgggag gagtcntaaa tgctgcacca cgaggaccgc 240
 cagggnggac gganncnagan tcctntctgg aagannggtt ctattggg 288

<210> 3546
 <211> 285
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700557861H1

<400> 3546

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 catgctaatag tgacatcagt tgtttgcaag agtggcaacc atgcttctca atcgaaattc 180
 acaagctctt cattcttgcc tggttttgat gttgttggtc gtgctcaaat gcttgaaga 240

nagaattgtc ccatctcatt tccttggtgc ctagagccac atacc 285

<210> 3547
<211> 288
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700557862H1

<400> 3547

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agctgagaaa cacttggtcg cacgatttaa caagcctgac aatgagattg ttgaccatta 180
cacatatgtt atattgggtg atgggtgtca aatggaggga atttcaaag aagcatgctc 240
acttgccggt cactgggggc tagggaagct tatngcttta atgatgac 288

<210> 3548
<211> 289
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700557865H1

<400> 3548

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tcgtcacctc ctctgcttct ccaccggctt cggngccgtc tgtgggtaac attcatnggc 180
ggcatcatca tgtntaanaa tcngccgcng atcagnttgg gaactgcaaa gcnagatgnt 240
tccggcggat ttctcgatgg tgggtntctg tgcgccgtat cgggtgcttc 289

<210> 3549
<211> 98
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700557866H1

<400> 3549

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ggttatatga acagcaaata gagcagcttg gaaatttc

98

<210> 3550

<211> 293

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557867H1

<400> 3550

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cactaatttc tgctctttca tgctctcttt tgattcactt ggcaataccc tcaacaaaaa 120

ttcatggcaa tcacacaaac tactaagttc aggttcagga aacggtgaca tggtagccca 180

ttttgttttc ctgggcacat atagttgatg tgatcatccag tatgcatgct caattcgtct 240

atagatcctt tgcttcattg ccatacacia caaggttctt cttgctccca ggc 293

<210> 3551

<211> 294

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557868H1

<400> 3551

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aacaaatcga ggggctttga gtcggttctt gagcgacaag ggtcgcattc tcagcgagga 120

ggaacaggcc aaagagaatg tctacatcca gaaatgggag agggagaggt tggagaaaca 180

gaagcgactg tctgagaagg ccaaggctct cacggacaaa gatgcttctg ctgctgctca 240

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<211> 292

<212> nucleic acid

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<223> Clone ID: 700557869H1

<400> 3552

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agctagaaga aatcaacgat gcctcgctat gatgataaat atggtaatac ccgcctctat 120
 gttggacgct tgtcttcgag gactcgttcc cgtgacctgg agcgtgtctt cagcagatat 180
 ggaagagttc gaggcgtaga tatgaagaat gatttcgcct ttgttgaatt tagtgatcct 240
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<210> 3553
 <211> 292
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557870H1
 <400> 3553

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 atatatcttg ccctgtttca cccattggaa gccactttt gaggccaaga tcaccacaac 180
 acatgaatgg gcgaatgtct ccctctccta tatctagccc tcggactgct tctgggtgcat 240
 ccacgcctct taatgggtgt agcgggtgcat tccatttagt aatcattagt tc 292

<210> 3554
 <211> 282
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557871H1
 <400> 3554

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 atcatttgaa gccatccaac gtgtgcttcc aaggcttag acncctcgca aggttcacca 180
 aagcctcatc aaccaaagtg agcaccacca ccaaaagggt tattccaaag ggtgggtgta 240
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<210> 3555
 <211> 119
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700557872H1

<400> 3555

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ccaacttgat acctctgatt cttcttttgc ttagaattcc acagaatatg gagaccgtc 119

<210> 3556

<211> 94

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557874H1

<400> 3556

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catttataaa gagaaatgtc attttctagc cctt 94

<210> 3557

<211> 288

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557875H1

<400> 3557

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tcctttatgc agaaaacacc tggcgatact ctattgggtc acaaaaggca ccagtcactg 180

tcataaaacg nnaaacccca cgatatttcg cacgctaact cgccatatcc gcaacccaat 240

atatcgtcac atgtaaattc atgtggaccc cacacancctt natchngt 288

<210> 3558

<211> 292

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557876H1

<400> 3558

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aaaccataca acctcttcta ntattcgttt tctgatctac gcaagggttaa ggtaatttg 120
 cttctatcta catggacatt aacgagatcg atgttccttc attctttctc tgccccattt 180
 cgttagaaat catgaaggat ccagtgcagg tctcaacagg catccaccta cgaccgtgaa 240
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<210> 3559
 <211> 283
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557877H1
 <400> 3559

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 atgtggcttt cacgttatca aagagaaaag ctgatgacaa cctgcatgca cttcatagta 120
 tattgtttgg gaaaaaagca aaggtagatc atctaaagag aaatataggt ctgttttctg 180
 gctatgtgtg gactgagaat gagggaaaac agagggtgaa gataaggaga gntgaccaat 240
 gtgtgaagaa nagttggtgg ctccgtaatg tgctaaatat ncc 283

<210> 3560
 <211> 288
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557878H1
 <400> 3560

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 tgcagaagga tcctccaaca tcttgcaagt ccggtcctgt tcatgaagat atgtttcatt 180
 ggcaagctac aattatgggt cctccagaca gtccctatgc tggaggtgtt ttccatgtga 240
 ctattcattc cctccagatt atccctttaa gccacccaag ttgcatca 288

<210> 3561
 <211> 289
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700557881H1

<400> 3561

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 tatgttgaga cctntccatg ggactcttca tcctgcagag acccttctga caagaaccac 180
 tgctgncaag tcttgetaag tgtaattggc ataggacttt cccaacatct caaacaact 240
 tccttgtttc aattcccang aaaccatttc ctcnattgct tatccattt 289

<210> 3562

<211> 291

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557882H1

<400> 3562

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 tcgctcacct cctctgcttc tccaccgcct tcggcgccgc tctgtgggta acattcatcg 180
 ggggcatcat catgtttaaa aatctgccgc ggcacagtt tgggaacctg caaagcaaga 240
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<210> 3563

<211> 288

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557883H1

<400> 3563

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 taaacccgaa taaaatttct cttccgttcg ccggaaacaa aaaacctctt tcggctccaa 180
 ttcgaaggcg gttcaatgtc attgctatgg ctccccctaa acccggtggg aaggccaaga 240
 aagtggttgg aatataaagc tggctcttga agctgggaag gctacacc 288

<210> 3564
 <211> 289
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700557884H1

 <400> 3564

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 cctctcgcct ttaccaaata cctagctctc ccttcagcac agaggccaac ttcgctgagg 180
 ctgaaatgca agatggagag cgacggcgac attctgcggg ggancactcg cacggngacg 240
 acgctgatgg gactngccgt gttgctgatg aagaaggcgg cnattccag 289

<210> 3565
 <211> 291
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700557885H1

 <400> 3565

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 aaaggactat gttaccggtt ttcccaaaga atccgacatg aatattgtcg aaagtaccat 120
 aacattgaag cttccacaag gttccaatga tgtcttgctc aaaaatttgt acttgtcttg 180
 tgatccgtat atgaggaatc tcatggaaca agcccgaagg ccctcccaa tagtcgtgct 240
 tacactcctg gctctccatt aataggatat ggtgtgtcta aagtctggat c 291

<210> 3566
 <211> 292
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700557886H1

 <400> 3566

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nnnnnnnnnn nnnnnnnnnn nnnnnnagca ccaatgacaa tgatgttagc atgcaagatg 180
 ctaataccaa ggcaactgct aatgcccctg gagccgaaaa tggtagccct gaggcaggag 240
 ataagcctgt gcagatggat actgatacca aggttgaggc tccaaagaag aa 292

<210> 3567
 <211> 284
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557887H1
 <400> 3567

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 aactctggtg gaggnccgc agcgatactg acgtgcaaat cgntcgtctg acttggttat 180
 aggggcgaan gattaatcga nncgtctagt agtgggtccc tccgaatttc cntcaggata 240
 gctggacccg cgggnagttc aatcgggtaa agccatgata gagg 284

<210> 3568
 <211> 288
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557888H1
 <400> 3568

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 tcgggagggg cagcatgagg aagaccgtca ccaagcaggc ctctccgga agcccatggt 180
 acggcccaga ccggtcaag tacttgggcc cattctctgg cgagcccccg tcctacctca 240
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<210> 3569
 <211> 108
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557889H1

<400> 3569
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<210> 3570
 <211> 285
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557890H1

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 agtccatggc tggcttcccc accagaaaga ccaacaatga cattacctcc attgctagca 180
 acggtggaag agtgcaatgc atgcagggtg ggccancagt tggcaagaag aagtttgaga 240
 ctctttccgc antgccagac ttgtgatgca cattggcaag ggant 285

<210> 3571
 <211> 264
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557891H1

<400> 3571
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 tcaccaatgt cagtgagtat gaggtattg caaagcagaa gttgccaaag atggcgtttg 180
 actactacgc atctggtgca gaggaccagt ggactctgca agagaacaga aatgcctttt 240
 ccagaatttt gtttcggcca gtat 264

<210> 3572
 <211> 285
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700557892H1

<400> 3572
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tgttatatag aaattttgaa tgtcatgaag anntagagga nagatgagag tacangngna 180
gtatattgca tcangtatgc ctaagnngng atngngaagat caancanggc cnccatggnt 240
gangcagctg gcctccattc aatccataca ccggtcattg gngng 285

<210> 3573
<211> 287
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700557893H1

<400> 3573
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tacaaccctg acaagattcc ttttgttcct atctctggtt ttgagggaga caacatgatt 180
gagaggtcca caaaccttga ctggtacaag ggtccaactc tgcttgatgc acttgaccag 240
attagtgagc ccaagaggcc ctctgacang cccctcaggc ttccctt 287

<210> 3574
<211> 283
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700557894H1

<400> 3574
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tgtcttgctt gtcacaaaga acacaaagct attcaggtaa aaactttggg ttaaaatttt 180
gttaactaat aactaattgt ctttgaggat ctgactcatt ttgatgcaat tttgtgggga 240
tttaaaactcc caaaaggcca aactaaggat ttggatgcct gta 283

<210> 3575
 <211> 285
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700557895H1

 <400> 3575

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 gaagctctca ctttcaacat ccacggcggc ttcttagagg ccatcgctccg cggccaccgc 180
 gccggcctcc tcaccaccgc cgattacaac aacctctgcc aatgcgaaac cctcgacgac 240
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<210> 3576
 <211> 279
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700557896H1

 <400> 3576

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 aaccggaaaa aaaaaatagt actctnacag tctcactnac ttgccccctt ttgtctatgg 180
 cacaagatgg tgtcttaaaa ctgtgtgatc ctatttgcac tgaaaaagtt gcaacctttt 240
 ngttgtgatt tcnctgatc agcaacatgg gttaaggng 279

<210> 3577
 <211> 295
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 <213> Glycine max

 <223> Clone ID: 700558301H1

 <400> 3577

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 gactgaccac aagttcacca tcaccactta cacttccact ggantggaaa tcacttcaac 180

tggagtcang anaggtgnaa tatntttggc cgatgtcagc actanggtga agnncaagan 240
catcacnntg atgtcaaagt ggncaactaac tcanatctgc gtacaaccat tatgt 295

<210> 3578
<211> 113
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700558302H1

<400> 3578

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gcatattgca ggcaatcngt cattacntcn ggtccaaant ggctcctgaa gca 113

<210> 3579
<211> 285
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700558303H1

<400> 3579

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aagacaagaa attcatctct atcatgatag atgatatatc ctttcttgaa gttgctgcta 120
atggctcttc caatgatggt ttaaacttgg tgcattattg ccatacgta acatctgatt 180
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gactgctgtt atgttagaga tggagttcct gctgacattt tggtc 285

<210> 3580
<211> 196
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700558304H1

<400> 3580

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ctgcctctc ggggcaccaa cactaaaacc acttagctct tatcttcct caaccattc 120
tcagtgtccc gaaaatcttc tctgcttcag accagagctt cttcagagga atcatcctca 180

gtagatgcca atgagg

196

<210> 3581

<211> 283

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558305H1

<400> 3581

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ttttctcaag aaccatttc tcagttccct tgaataaaga gcttccactg gatgnttcac 120

cncttggtgn tggctataac tgtggtgtag gatgcagaac aaggaagcaa aggaagaaag 180

tnatgcatgt gaagtgtgca gtggtggagg ctccaccagg tgtttcaccc tcagcaaaag 240

atgggnatgn aaccaccctc tcgnagaagc agcttcgtat att 283

<210> 3582

<211> 282

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558306H1

<400> 3582

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gaaggatatt atttcgtgct caatacatat tgcgaagaaa actgagggac atgagggctg 180

gtgaattaag ggcctaaaa atattcaacg gtttccgaa tcttttccaa tgaggccatt 240

cactggtgca ttattttctg ccctgggttg ccctgggttg tt 282

<210> 3583

<211> 282

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558307H1

<400> 3583

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tgccgatca tgcgtcaa gatgttgaa ctccgtctcg tgcaaggctc ctcctgaag 120
aaggttttgg aatccgtcaa ggagctcgtg aacgacgga acttcgactg ctccctccacc 180
gggtttctccc tccaggccat ggactccagc cacgtcgccc tgcgtcgtct ctcctccga 240
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<210> 3584
<211> 272
<212> nucleic acid
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<223> Clone ID: 700558308H1
<400> 3584

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agctcctgaa gcgggagaag gtggagaatg tgctcactt cagcttctac aagagcaagg 120
agaagataca cgaggaggaa gggattggtc ccgacatgct ggtaggggat gtgctatact 180
acgggggacaa cactctggt gtggtgcagc tgcacaacgt ggaggacgtg cagaagctca 240
tagaggacca caagctggat cacaagctca tc 272

<210> 3585
<211> 278
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700558309H1
<400> 3585

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cctgttgng ttcataccca caggctgggg tctgatatcg attgcccag tattccggcc 180
attnngcag tccactatca tntgggatgg tgtgtntca gtggcccgna natatganat 240
natgnttggа gtcattatcat gtcncctgtg gcatacta 278

<210> 3586
<211> 274
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700558310H1

<400> 3586

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ccaganagaa atgcggtgtc ttgcacatca atggttgtgg cttagactag agcatgtaga 180
ttggttgagg ctgtagggtta ttaaggaca tgccgggttaa gaatacgggt tctggactgc 240
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<210> 3587

<211> 275

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558311H1

<400> 3587

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caatctcaac ntcnctcgag gacgctgacg tggacgacga accggtacng gcgtcccng 120
gccggagggt cgtaatnnnn nnnnnnnnnn nnnnnnnnng tgaggaggag aacgggggaa 180
gggatggaca cgtggcggaa ttgtatgatg ttgagtcgag cgaggaggaa gaggaagacg 240
ttgatgattg aacgagaacg acgttgttgg aaggc 275

<210> 3588

<211> 279

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558312H1

<400> 3588

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tcgggagggt cagcatgagg aagaccgtca ccaagcaggc ctctccgga agcccatggt 180
acggcccaga ccgcgtcaag tacttgggcc cattctctgg cgagcccccg tcctacctca 240
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<210> 3589
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 <213> Glycine max
 <223> Clone ID: 700558313H1
 <400> 3589
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 actgtgcctg tgggacgggt tgagactggt gtctgaag 278

<210> 3590
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 <213> Glycine max
 <223> Clone ID: 700558314H1
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 aagcactctc caccctccat ctctccatct tttggcttga ggagtctgaa atcgagctct 180
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<210> 3591
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700558315H1
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nnnnnnnnnn nnnnnnnnnn naactcaaca tcaaaacaat atcaattcta ataataactc 180
attgcacacg tcaaatgaat agaagaagat aattttgcaa tatcacgtga ttttgaagat 240
gaatatcgat cgatatcgtg tccggtacta ctatttcagc tttac 285

<210> 3592
<211> 289
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700558316H1

<400> 3592

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aaacctggcg tctatatcgg tagaggactg cgaatcaata aaggagatat ttgcgggaga 180
tagttccgac aacattgcac ttcccaattt aaccaaattg caactacgct atttaccaga 240
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<210> 3593
<211> 277
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700558317H1

<400> 3593

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gttggttcat ttttggacca cctaccctc tgcancgct gccacgatgt tgttgctgtt 180
cagatgcccc ctcaagtagc agcagtcagt taaattttag aagcaaagtt tgaattccaa 240
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<210> 3594
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<212> nucleic acid
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<223> Clone ID: 700558318H1

Variable	Mean	SD	Min	Max
Age	34.2	10.5	18	65
Gender	Male			
Marital status	Married			
Education	High school			
Occupation	Manager			
Income	10,000			
Health status	Good			
Exercise frequency	3 times/week			
Stress level	Low			
Sleep quality	Good			
Dietary habits	Healthy			
Family size	3			
Work hours	40			
Commuting time	30			
Living space	100			
Neighborhood safety	High			
Public transport	Good			
Local amenities	High			
Community involvement	Low			
Local government	Good			
Local economy	Good			
Local culture	High			
Local environment	Good			
Local infrastructure	Good			
Local services	Good			
Local facilities	Good			
Local resources	Good			
Local opportunities	Good			
Local challenges	Low			
Local risks	Low			
Local threats	Low			
Local hazards	Low			
Local dangers	Low			
Local perils	Low			
Local troubles	Low			
Local problems	Low			
Local issues	Low			
Local concerns	Low			
Local worries	Low			
Local fears	Low			
Local anxieties	Low			
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<213> Glycine max

<223> Clone ID: 700558319H1

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cttcaaacc	ccactttctt	ctctgttgat	acacattgat	ccactcataa	tacccaatgg	180
ccacacttgt	tctgcatcag	aatctgatcc	atcaccact	tctcagcacc	atcagcagga	240
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<211> 280

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558320H1

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tattttgaga	gagtnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnccaatgg	cttcgcgaac	180
tgccccaaga	ttcatcaagt	gcgtgaccgt	tggtgatgga	gctgtaggga	agacctgcat	240
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 <213> Glycine max
 <223> Clone ID: 700558321H1
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 aaatccatgg ctggcttccc cacgaggaag accaacaatg acattacctc cattgctagc 180
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<210> 3598
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700558322H1
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<210> 3599
 <211> 278
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700558324H1
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 gactgatgac acaaaggcaa ttcaagcctt taagaagttt ggaaacaagc tgaaggaaat 180
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278

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<213> Glycine max

<223> Clone ID: 700558325H1

<400> 3600

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tcgaagccct ccatcatctc ttcttcgccc gaatccctct cctctctctc gtgcgcatctc 180
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<210> 3601

<211> 276

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558326H1

<400> 3601

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atcatcacta agatcgaagc acgccatgtg tggcgccact gccgacatca aggctgcacc 180
tttagctgat ggagaagcag atcacgcggt tcttgtgggc cccgccagcg aggacgagag 240
aaaaggagac tatgactgga cacaggaatg gtaccc 276

<210> 3602

<211> 272

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558327H1

<400> 3602

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agtttcatac tcaggaaata atggactgtc cttgaaagtt tctgaggatt cgggtttgac 180
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<210> 3603
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700558328H1
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<210> 3604
 <211> 276
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700558329H1
 <400> 3604

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 ngtctatctc tgccagcagt aagggtccagt tactgctggc aagagataga catcaaggat 240
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 <211> 280
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700558330H1

<400> 3605

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gagaggcaag ctgcaccgga ttattgcaa attgaagcct ccaagactcc aaattccttc 180
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<210> 3606

<211> 251

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558331H1

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accaccacca acgccagcgc aatcgcgcgt tcagatcctt gaaaaaatcc ccggcaacaa 180
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<210> 3607

<211> 284

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558332H1

<400> 3607

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ttacgacaag gagcgacccg gagttacatg gccgaagcag ttgaatgctc cacttgaggt 180
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<210> 3608
 <211> 284
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700558334H1
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<210> 3609
 <211> 272
 <212> nucleic acid
 <213> Glycine max
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 ttgggccacg cagggtggtc gtgtgaagac agattggagc cacgcaccct tcgttgccac 180
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<210> 3610
 <211> 279
 <212> nucleic acid
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 <223> Clone ID: 700558336H1
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ccccctgtca agcaaggatc agacagacct ttgtggtttg catcaaagca aagtctttct 240
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<210> 3611
<211> 278
<212> nucleic acid
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<223> Clone ID: 700558337H1

<400> 3611

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gtctattgct aaagagatca atgaaaatcc tgaggcagga tgggaggctg ctataaatcc 180
tcatttctcc aattatacag ttgaacaatt taagcgctt cttggagtca aaccaacgcc 240
taagaaggaa ctgagaagta cacctgctat atctcacc 278

<210> 3612
<211> 281
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700558338H1

<400> 3612

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gctttttttg tttgcnttac catacanatt tncaaactct tcanacanat tcntccaagc 180
gtcactggtn ctaattccat tntttgtagg ccgnggatct tgaccaatnt ttgcnnnggt 240
ntnnannatc aatctctgnc ctggtncatg gccannggac a 281

<210> 3613
<211> 272
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700558340H1

<400> 3613

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gattcaaagt ttggtggggt tggatctgca ccaaagtttc ccagaccagt tgagataaac 180
ttgatgctat atcactccaa aaagtggag gatacgggga agttgggtgt agctaattgga 240
agccagcaaa tggttttctt agcttgcaat gc 272

<210> 3614
<211> 272
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700558342H1

<400> 3614

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ttagataaca agagcagcca aactggagat gctcattgaa aaatggacgc cctgatgatg 180
ataaaagtga caagattctc gaagtggata cttggaggcc aactcaagt ctcaccacag 240
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<210> 3615
<211> 266
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700558343H1

<400> 3615

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tatacagaca ctcatgtagc acatca 266

<210> 3616
<211> 274

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277

<210> 3619

<211> 271

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558347H1

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actttggatt ggaaggttgt cgcaatgggg aaggttgtgt tgttgtttct tgcannnnnn 180

nnnnnnnnnn ntcttggtct tgctgattca attgagaagc ttgaggttca gaagcactga 240

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<210> 3620

<211> 276

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558348H1

<400> 3620

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aacctgctt tccatttaga aaaattgaag gttatgttac caatatttct gaatgttgtg 180

acgatatggt ttccaaatgg gaaaggttgt tgtcttcaaa tgacaaatcc gaaattgatg 240

tgtggccttc ctcaaaatta acagtgatat tatatc 276

<210> 3621

<211> 283

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558349H1

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 ccaaaatcag anaatccact ataacggttg angaacttta ggagcttaat gtggctttga 180
 tgggctatat agtctttgca atcagcaact gggggtgtgc ctgtcttntg tgctgaaata 240
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<210> 3622
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700558351H1
 <400> 3622

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 tgctttggaa gaagacttgg cgaanttaat gatgagcttc aacaggaagc gcagtgtata 180
 ccaaacatga ctcattccaga tgttccaata ggaggggagg atgttccacc ataaggaaga 240
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<210> 3623
 <211> 276
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700558352H1
 <400> 3623

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 gagcttcagc tcccagttca gccttctttg ggaccagctt gaagaagggt attgcctcaa 180
 gggtcncaa cagcaagggt tccggtggaa gcttcaagat tggtgctgta gaagagaaga 240
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<210> 3624
 <211> 274
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700558353H1

<400> 3624

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 nnnnnnnnct cattcaagac aggcctgtct ttgctgcccc tgcccccatc atcaccccaa 180
 ctgtgagaga ggatatggca aaggactacg agcaagctat tgaagaactc cagaaattgt 240
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<210> 3625

<211> 272

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558354H1

<400> 3625

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 cagaatctat tcttttgac tctttgccag aaccagccaa atctgcctac tctccttca 180
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<210> 3626

<211> 271

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558355H1

<400> 3626

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 taggtacttt cactctgtcc aatctgggaa tgtttggtgt tgatcgcttt gatgctatnc 180
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<210> 3627
 <211> 275
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700558356H1

 <400> 3627

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<210> 3628
 <211> 269
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700558357H1

 <400> 3628

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 aacataacga tcaaattggga tgttgtgtca tggacaccag atggctatgt aagcgtggta 240
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<210> 3629
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 <223> Clone ID: 700558358H1

 <400> 3629

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actgtctact caacacaatc tctgagcaca aattgctcca tctcaacccc atcaaagacg 180
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<210> 3630
 <211> 271
 <212> nucleic acid
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 <223> Clone ID: 700558359H1
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<210> 3631
 <211> 271
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700558360H1
 <400> 3631

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<210> 3632
 <211> 261
 <212> nucleic acid
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 <223> Clone ID: 700558361H1

<400> 3632

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tactgttttaa agtaacacat taattatgtg accttctcgg tctaaggaag taacaactca 180
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<210> 3633

<211> 273

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558362H1

<400> 3633

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<210> 3634

<211> 276

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558363H1

<400> 3634

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<210> 3635
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700558364H1
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<210> 3636
 <211> 275
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700558366H1
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<210> 3637
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 <212> nucleic acid
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 <223> Clone ID: 700558367H1
 <400> 3637

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<210> 3638
 <211> 270
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700558368H1
 <400> 3638

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 anacgccgta tctccttctt ccaaactcgg tcttacaccn tactccgtnn cccgtccacg 120
 tcacctccaa ngtctctctc cgnacctcgc gaatccgcgc aantagagnn gaatccgcgt 180
 tggncgancg antcaacgac gtcgaatgga ccggaaacgg cgcagcgctg ctgctgctga 240
 cggaaaggcg ntccgttngt ggatagttaa 270

<210> 3639
 <211> 269
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700558370H1
 <400> 3639

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 aaacctggcg tctatatcgg tagaggactg cgaatcaata aaggagatat ttgcgggaga 180
 tagttccgac aacattgcac ttcccaattt aaccaaattg caactacgct atttaccaga 240
 attacagaca gtgtgcaaag gattttact 269

<210> 3640
 <211> 245
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700558371H1
 <400> 3640

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atgaagtggg tgccttggga gctgcagttc aggctgggtg cttggctgga gatgtcagtg 120
atattgtgct gttggatgtc actccattat ctttgggtct ggaaactcta ggtgggtgtga 180
tgacaaaaat attccaagaa acactactct tcccacctca aagtccgagg ttttctcaac 240
cgctg 245

<210> 3641
<211> 269
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700558372H1

<400> 3641

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atgcagaacc ttgaggccat cgacggagag aagaccgctg agaatgcact ccttgagacc 180
cgtgcccac acgatcacat cgtactcctc atccatgttc gatcgatctc gatctcaccg 240
aaaacggggg ttagggtttc ccaacacaa 269

<210> 3642
<211> 266
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700558374H1

<400> 3642

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cgattcgggt tcggcaagaa aaaggctccc gcccacaaaga aagcctccag gggatcgggc 180
cgagacaccg acagaccctt ttggtatccg ggcgccaaag cgccgaatac ctcgatggga 240
gtcttgtcgg agatacgggt tcgatc 266

<210> 3643
<211> 260

<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700558375H1

<400> 3643

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attgagcaca ggtggaacca gcatgggttg ggtggcgata acgtgaaggg gagttgccgg 180
gacctgcacg ctgggcctgt gagtctttgc atggtccggt atggcaagcc ctggactcga 240
tggactccaa acagccctgt 260

<210> 3644
<211> 123
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700558376H1

<400> 3644

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cggcagttat tcatagacgg agactggaaa gtccccgtcc tcaagaatcg gattcccatc 120
atc 123

<210> 3645
<211> 265
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700558377H1

<400> 3645

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gtgtcatgag gtattgcaat cttttctctc tatcacagtt tcatttaatt ttttaatgct 180
gcaacgtatg ctgctgtata aaaatgaact tataattcaa ctagaattct cttattaaac 240
cacacgtaca taagatatgc aagtt 265

<210> 3646
 <211> 269
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700558378H1

<400> 3646

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 gatctttttg aagcatgtga tattaacgag gatatgggaa tgaagttcaa tgagtttatt 180
 gtacttcttt gtgtgtgcta cttctcaag aatgaccctg cagctctcat gctaaatcac 240
 gaattgggat gccaaagctg gagggcaca 269

<210> 3647
 <211> 280
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700558379H1

<400> 3647

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 actagaggaa tccatcataa aggctcctg acgatgcttc taacagttga tagtggccag 180
 taacccttgg tatatnongg natacaanta ntcttcctgn aagatngtgt taaccatggt 240
 ttctctgnatg atgcaaata tagtcctaag gntcaagcng 280

<210> 3648
 <211> 267
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700558380H1

<400> 3648

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 gctctctgaa ttctctggcc tccgcagctc atcaggcttc ttccctttct agaaaatctt 180

cagaggattt ccatctgtca ttgccttcca gactatgcat tggaagcatg gaggatacaa 240
naagggtgtg acgaggcaaa ctgangt 267

<210> 3649
<211> 161
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700558382H1

<400> 3649

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cgtcctntat ggggacgcgt ctcttgagg ctcnctncgg nccnngnga gtnnacgncc 120
gattcggtt cgnaagaaa aaggctccc cnccaaanaa a 161

<210> 3650
<211> 269
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700558383H1

<400> 3650

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gatcggaagg nangttcttg tctcatccga ncccccaana caacnangtc atcnnectcg 120
ctacaattcc ttttcaagan aagctnttaa ntgctcanaa ttcacaagct gctctagctg 180
cccttanctn ttctnccg agcntctctg tgancnnatn aggccttgnn gctgataacg 240
tnaatctcc cctgtatt gaagncna 269

<210> 3651
<211> 268
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700558384H1

<400> 3651

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tccgaactcg ctncacggcg ctaacaacgg tcttgacatc gctgttaggc ttttgagcc 120

<400> 3654
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 cggaaggcgt gcttgggtcca ccccaaactg ggcacctcgc caggttcgag tttaagangc 180
 gcctcgagag agacgcagat gcccgcgaa ctttccaacg tcaagtccgt gaagagaaag 240
 aacgccgtca atcccttcg 259

<210> 3655
 <211> 266
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700558389H1

<400> 3655
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 gcaaaaaggca aagatggctc gcgagaagaa catcgagaag cagaaggccg cctcaaaggg 120
 aagccagctg gattcaaaca agaaagcaat gtcgatccag tgcaagggtg gcatgcaaac 180
 atttatgtgc accacatcgg aagtgaagtg tagggagcat gctgaagcca aacaccctaa 240
 atctgatgtt tatgcttgtt ttcctc 266

<210> 3656
 <211> 215
 <212> nucleic acid
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 <223> Clone ID: 700558390H1

<400> 3656
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 ttttatatatt tctttcacgt caattagggg tttttttgct ggcgtgattc tgaaggcttg 120
 gatctggata tcttctttgc ttcttttgcta tggaagactc ggattcagtt gctacactga 180
 tagattctac tacttctaag atacaacagc tgcag 215

<210> 3657
 <211> 263

<212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700558391H1

 <400> 3657

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 cagtgctaag gacaccgcca ccgatttctt gggcaaaggc ttggacgcat taggtcatgc 180
 agttgatnct ctactgcct tcgtggcca tagcatctcc ttgcagctta tcatgctact 240
 cagactgatg gtagtggaag agg 263

<210> 3658
 <211> 264
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700558392H1

 <400> 3658

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 gatgggaatc aatggccagt ttcttgcccc aaccatcaca gctgaagctg gagacaccct 180
 tgagatttta ctaccaata agctctccac agagggaaca gttattcact gnccatggat 240
 tagacagtat ggaacacctt gggc 264

<210> 3659
 <211> 272
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700558394H1

 <400> 3659

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 cgcggcgta acgatgacga gcttctgaaa ttccaacttc gcccttcttc tctgtgtnnn 180
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnntc ggtgagggtta gctccatgcc 240

tagtcccaag agcagccgca gcggccagat cg

272

<210> 3660

<211> 270

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558395H1

<400> 3660

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aactatccat ggcaaaccgc tggtcagac ccgaggtgta tccactgttc gctgcgggtg 120

gtgccgctgt tgggatctgt ggattccaat tggttcgtaa tatctgcac aaccctgaag 180

tcagggtgaa caaggagga agaaaggcag gagtgttgga gaactttgct gagggagaga 240

agtatgctga gcattcctga ggaagtatgt 270

<210> 3661

<211> 307

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558401H1

<400> 3661

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cacaccatca cccctatatt ggagtcttta tagggacgtt gactatgggt ttggcaaatt 120

gactgctttc aatcattcat atctcttggt tgagtacaag aaaagtagtg atggagaggt 180

ctacgactcc ttnacccatn tcaagagact aacagagatg ttttggcctg tgtgcacatg 240

gttgtggaga aaactactct agccaacatg agtnatgttg tggcttatgt gtacnccga 300

atatga 307

<210> 3662

<211> 301

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558402H1

<400> 3662

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 ccacgcgcgc tcacggcatc ggcatcaact acggcacgct cggcgacaac ctcnaccgt 120
 ncgngnggtg ggcgaacttc ctgaagacga agacgacntc gaccgctga agatcnacga 180
 cgtgaacccg gacatcctgc gggccttcgc cggcagcggn atctccgtna cggtgaccgc 240
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 c 301

<210> 3663
 <211> 302
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700558403H1
 <400> 3663

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 aggcgcaatt cccccacat gcaagcgcat agagtgtccc agctatgatg tcattcacgt 180
 aggcaacggc tacgaaatcc gtcgctatat ncaccgcttn ggatttnaaa cagnccnatt 240
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 ca 302

<210> 3664
 <211> 295
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700558405H1
 <400> 3664

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 ccaaagtgtg catcagggct tccattgccg ttgagcaaca aacttcccag actaagggtg 120
 ctctcctcag aattggtacc agaggaagtc cactagctct ggctcaggca tatgagacca 180
 gagacaagct catggcatca catgcagagc tagcagaaga aggggctatt cagattgtat 240
 aataanaaca actggtgaca aaatatatca cagccattgc agacattggt gggag 295

<210> 3665
 <211> 292
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700558406H1

 <400> 3665

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 tactggctac tacnttctct tcttctctct ataatagtaa caaccgtaac cccctctttc 180
 aattattctc cggtattctc cggcctcgaa ttcgagcatt ttccacngac ttcagnatnc 240
 annnacacca atgttcttct tctgccttn cccaaagcag gcgaatttcg ag 292

<210> 3666
 <211> 296
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700558407H1

 <400> 3666

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 attaaggatg ctaagcaaat gttgctgttc tcctctgacc aggaactcct tgaatatatt 240
 aaagaggagc atcctgagtg ggagattaag aatggtagtg tcttttccaa aaggcc 296

<210> 3667
 <211> 296
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700558408H1

 <400> 3667

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 aggatccacg agaggatgtc cttcaagcct ggtacatgga tgatagtgat gaagatcaaa 120

gactccccc ccacaaagaa cccaaggagt ttgtctcggt ggaccaactt gctgaacttg 180
gagtccttag ctggaaacta gatgctgata accatgaaaa tgatccagag ctgaagaaga 240
ttcgtgaaga gcgtgggttac acctacatgg atgtttgtga ggtctgcccc gaaaag 296

<210> 3668
<211> 296
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700558409H1
<400> 3668

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atggcctttg gaagataaat gaccaccggc gtagactacg tcaaagaatc caacagctca 180
agtcagaaga aaaaaactcc aactagatgt ngaaatatcc tccangtccc angactgatt 240
tnggttttna aaaaagtgtg tattagaggt gttgtataaa aaaaaganat gtatcc 296

<210> 3669
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<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700558410H1
<400> 3669

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agaggaagga gaagcaaaag cacgtgagct caatgtcatg tttattgaaa ctagtgtctaa 180
ggctgggttt aatataaagg ccctatttgc aaaaattgct gcagcattac ctggaatgga 240
aacactatct tctgcaaaac aagaagactg gttgatgtaa acttaaagtc ta 292

<210> 3670
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<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700558411H1

<400> 3670
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 ctggagcaca agagagtact atggcttggc tattcgagaa acccgaatca aggctgcgcc 120
 tgtgcatgca tcagcccatt ggtatctgga gaatgttttg cctgttctac agagttatgg 180
 tattgctgca atctctccat tttcnccaca gactgagttt tgacaacttg cctatggata 240
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<210> 3671
 <211> 292
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700558412H1

<400> 3671
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 ccctaaaccc ggtgggaagg ccaagaaagt ggttggaatt ataaagctgg ctcttgaagc 180
 tgggaaggct acacctgctc ctcccgttgg cctgctctt ggttccaagg gtgtcaatat 240
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<210> 3672
 <211> 291
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700558413H1

<400> 3672
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 caaatcgatg atctgtcgtg tccaaacttg tcttttatgc aggatcaagt gaaaactgat 180
 tattttccat tgagtttcat ttagttctta gcttctgctt cgatgccttc aatcatgtca 240
 cctcagtggc aagacaaggc tgctggtttc ttttcttcct ctgggggtcaa g 291

<210> 3673
 <211> 292
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700558414H1

<400> 3673

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 aatccttggga catgcttcag ttccattggg gggattactc gaatccaggc tacctggatg 180
 cactaaaaca cctaacagat ttgaaagaag aaggtaaaat caagactgtg gctctgacaa 240
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<210> 3674
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 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700558415H1

<400> 3674

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 gaactcggcc cgaacgccc ccaacctgctc gttccttgag tcttcctatc aatctatgtt 180
 ggtatttgcc atgggatgtt gacaataccc ggctnaagca attttcataa ancacggtaa 240
 tgttgtnaat gctcgggtag tctatgacag ggagtcaggt cgatcacgtg 290

<210> 3675
 <211> 296
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700558416H1

<400> 3675

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 ctgcctccgt ctccactgtn cggagctgta caacagagct cttttgaacc tgaatgggtc 120
 tggacctggg gtttcagctc ccagttcatc cttctttggg agcagcttga agaaggttat 180

tggctcaagg gtccccaaca caaagatttc ctctggaagc ttcaagattg ttgctgtaga 240
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<210> 3676
 <211> 284
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700558417H1

<400> 3676

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 tcgttaattc gattgntaat tnggtctttg tcattgaggg tttctgggtc acagtgagtg 180
 gatgtgaagg tttagatttc aaccnggcgg gtcngtntng ntttctaaaa ggtttaaggt 240
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<210> 3677
 <211> 301
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700558418H1

<400> 3677

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 ccagcanttg tcagggaag gagagcnatg aagaggatt atgaagaatt taaggtagg 180
 attaacagnt taatggccaa cagcacaaaa ggttccnga ggatggangg ccatgcaana 240
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 g 301

<210> 3678
 <211> 202
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700558419H1

<400> 3678

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taattntntc atcatntnac agtaacggat gaagctaagc ancgaggtag aagctgagag 120
nnaagttgga tggctatnga agacgataatn tnntgtcact gnaggggtag caggatacca 180
tnnccgtntct natatgggga ga 202

<210> 3679

<211> 113

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558422H1

<400> 3679

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agcagcacca gacatttata aaagcnccttt cccttccttc anacgcenca tac 113

<210> 3680

<211> 291

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558423H1

<400> 3680

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gtagagcgag agagaaaaaa aatgttgggg atcttcagca gttccgtggg gtcgccgccg 120
gaggagctgg tggctgccgg cagcagaacg ccgtcgccga agacgacggc ggggaagctg 180
ctgaaccggt tcgtggagaa caaggcgtcg gcggtgtcgc tncaggtggn agaacacgtg 240
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<210> 3681

<211> 292

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558424H1

<400> 3681

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 tcctcaaant gnttncttnt cttagccgtgg accgaaccan cttacancgc agattctgaa 180
 acctgatgtt antgctcctn gtgttaacat ttgancaggg tgnactggnn cgtgnnggtn 240
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<210> 3682
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700558425H1
 <400> 3682

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 gtgtttgatg caattagaga gcttgggaat gaaggagttg agcaatggga tcctctagtt 180
 cttacttctg cctcactctt gagcaagttg ccagtggtt cttcctctgt ngattttctg 240
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<210> 3683
 <211> 288
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700558427H1
 <400> 3683

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 accaaaacct tgcgcaacct atccatgacg cttggctcag gaggatccag tgctgttggt 180
 cctaggaact tcagattgct ggaggagctt gaacgtggtg aaaaagggaat tggagatggc 240
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<210> 3684
 <211> 287

<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700558428H1

<400> 3684

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ggtgcaagcc gtgtcatgca atgatgtttc tgtgaaccta gcaccgtgcc tatcttacct 180
gatgcagggt ggagatgttc cagaatcgtg ctgtagcgga gtgaggaaca ttctgggttc 240
tgccagcacc acctttgaca aacaaaccgt gtgcaaagt cttcagc 287

<210> 3685
<211> 284
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700558429H1

<400> 3685

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ctggaggatg ttttgcactg taaatcacca caaatttcct tcaaaataat tgagtgactg 180
gttcagtgtt gtactatcct gtgatagegc ccttttattt ttcctctatt tttgtcaaat 240
atcttctttt ccttttttcc ttttctctct tcatcagaaa acaa 284

<210> 3686
<211> 290
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700558430H1

<400> 3686

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tcgtgggcac gccgttctct gattgttcta gccatcattt ccttcggatg tactatttgc 180
gatttccatt gctaaggagg aagccaccaa gttaggagcg gtcacgggca tgatcttgga 240

acaacctatt catgtgtcgg tgtttacaag aatggccatg ttgaatcata 290

<210> 3687
 <211> 194
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700558431H1
 <400> 3687

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 gttgtgctgt gcgttggtgt agtggttttt ggaagaggag gcttgagcta aacgctgcgt 180
 ttcgacgacg atga 194

<210> 3688
 <211> 290
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700558432H1
 <400> 3688

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 cttctgtttc ggccacaact gaaatttcag ggaatgaagt gaacacagat gggaaggtga 180
 taaatgaaga gttagcaaaa ccaagtctaa aaggacatga tgaagaagca aagttcaaag 240
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<210> 3689
 <211> 152
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700558433H1
 <400> 3689

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agcttcactg ttagggccan ccaatcagaa aa

152

<210> 3690

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<212> nucleic acid

<213> Glycine max

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cactgttcaa tcttcaaaat cacatttttc tcgatcttca cctnctcngg ttg 113

<210> 3691

<211> 117

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558435H1

<400> 3691

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gncgacgggc tgaanctctg ccaagnnat ananntcgtn aaggccaggg cgntgtc 117

<210> 3692

<211> 292

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558436H1

<400> 3692

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gtagagcgag agagaaaaaa aatgttgagg atcttcagca gttccgtggt gtcgcgcgcg 120

gaggagctgg tggctgccgg cagcagaacg ccgtcgccga agacgacggc ggggaagctg 180

ctgaaccggt tcgtggagaa caaggcgtcg gcggtgtcgc tgcagggtggg agaacacgtg 240

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<210> 3693

<211> 291

[illegible][illegible][illegible]

<210> 3696
 <211> 288
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700558442H1
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 gagctggagc ttcagctccc agttcagcct tctttgggac cagcttgaag aagggttattg 180
 cctcaagggt cccccacagc aaggtttccg gtggaagctt caagattgtt gctgtagaag 240
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<210> 3697
 <211> 288
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700558443H1
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 actgtgccgt tacgggtggc gcgacttagg agataaaaac ccgttcaccc cgaaggctta 180
 cgtggcacgt tactgggttnn aacacgtccg caacaacttg ccaaagccat cgtttctctc 240
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<210> 3698
 <211> 284
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700558444H1
 <400> 3698
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 gtgcctgctg aagcagctgc ctttgatcca ttgattggga agaaagtttg gactaggtgg 120
 cctgaagata accacttcta tgaggctgtt gtaactgatt acaaccctgc tgatggccgg 180

catgctttgg tttatgatat taataaaagta aatgagactt gggaaatgggt tgatctcaaa 240
gaggtatatg ntttcctatg ctgtgctgcn tatatcagag cagt 284

<210> 3699
<211> 285
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700558445H1

<400> 3699

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gggtcagcat gaggaagacc gtcaccaagc aggcctcctc cggaagccca tggtagggcc 180
cagaccgct caagtacttg ggccattct ctggcgagcc cccgtcctac ctactggcg 240
agttcccagg tgactacggc tgggacatgc tgggctttcg gccga 285

<210> 3700
<211> 285
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700558446H1

<400> 3700

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gacccctta taaccacagt gccctcaaac cgtggcatgt ttgtgtcaca cttggtggaa 180
cctttgtcca ttgggggtgc cattaattcg cacaagttgt gggggcctag aatttctgct 240
gctgttgac aagaagaggc tgttgtgtg gctgatgatg aggta 285

<210> 3701
<211> 275
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700558447H1

<400> 3701

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gagcggttcc agagcaaggc agcaagactt gggatggacc aaaaccatt tcattgtngg 180
gtgtactngt tcaattggaa ctgagacact agatttgtgg cagngatcca gataagtta 240
aagttgtggc attgcagctg gttcaaatgt tactc 275

<210> 3702
<211> 285
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700558448H1
<400> 3702

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aaaaatcnng ttagcttcnc aaccatctgc aggacaggtg aagnaagant ctinctgcaa 120
acctagtcca ggcacntcca aagcncgggt ctcgaaaccn accccataga naattcnang 180
ccagactagg nngacngcaa gcagcannaa tangcngaag atgcagagta aaaagtacga 240
ggattaaana atactngttg ttgcattggn attatgggag agtct 285

<210> 3703
<211> 284
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700558449H1
<400> 3703

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caagttcgac aagaacggcg acggcaagat ctctgtgcgcg gactgaagga gatgatggcg 120
gcgctgggat ccaaaacgac gtcggacgag gtgaagcgca tgatggcgga gctggaccgg 180
aacggcgacg gctacattga tttgaaggag ttcggcgatt ccactgcggc ggcgggtggcg 240
acgggagggg gctccgggag gcgttcgagc tgtacgatct ggac 284

<210> 3704
<211> 288

<212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700558450H1

 <400> 3704

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 gcgctgggat ccaaaacgac gtcagacgag gtgaagcgca tgatgancgg agcttgaccg 180
 gaacggcgna cggctacatt gatttgaagn agtncggcga nttccactgc ggcggcggtg 240
 gcgacgagag anantccng gaggcgttcg agctgtnacg atctggna 288

<210> 3705
 <211> 287
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700558451H1

 <400> 3705

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 tccttcttat tttatttttg gaatttgaat ttggtctctg ccgcatgtta gagtgaatgg 180
 aatagatttg aggatgtcna agtcgattat cccaacatca cnagcnatct cccnatttcc 240
 gagtgatnaa ccctttaaag aaagtccctg nngttgttna tggaggg 287

<210> 3706
 <211> 293
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700558452H1

 <400> 3706

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 cgaccttcca tcttgtacat ttctacgga ggcgcgcct cagagttaca tccgagttcg 120
 atagtgaag cgcagtcttc ttccataaga tttctgcaa gttgttgga agccttgcca 180
 agttcaagtt ttcggttaac cacagcggtg agggcggcga catctccgaa cctcaatnca 240

gctttgtctc caagcacctt agcctccatt acgacctcga agaccataat gct 293

<210> 3707
 <211> 278
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700558453H1
 <400> 3707

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 ccagtgttgt tgaggtcttc tctcgcatcg accacaaatt tgacctcatg tatgccaaga 180
 gggcttttgt tcattggtat gttggtgagg gtatggaaga gggagagttc tctgaggctc 240
 gtgaagatct tgctgccctg gagaaagatt atgaggaa 278

<210> 3708
 <211> 169
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700558454H1
 <400> 3708

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 ggtggtgcct ctcttccat actccccagc caaacctct ctcaggaagg ccacattacg 120
 cccttcgctc ttgcgaacc ttaacactcc tntttctct tctcttca 169

<210> 3709
 <211> 284
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700558455H1
 <400> 3709

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 gagcaaggat ctgagtgagt gagcgatcat gtntgggtgg gcgattatct ccgacttcat 180

tccagcgggt cccgccggcg gggcgacgc gtgnaccgcc gacatcctnt ggccgaattt 240
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<210> 3710
<211> 287
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700558456H1

<400> 3710

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tggggatcag ttcacaaagg acgacatcaa agtgtatggt gctgttttgg agaagccagg 180
tgactctttt cccaatgctg ccaagtggta cgaggttgct tcatctcagc ttgctgcaag 240
cttccccggc aatgctcaag gggtgagatt cagtggcaaa gcttctg 287

<210> 3711
<211> 282
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700558457H1

<400> 3711

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gttgtcttaa accctgctac ccccttaagt gcaatagaat atgtcctgat gtgggtggatt 180
tggtcttaat tatgtccgta aaccctggct ttggtggcca gagttttatt gagagtcaag 240
taaagaaaat ttctgacttg agaagagtgt gcgcggaaaa gg 282

<210> 3712
<211> 285
<212> nucleic acid
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<223> Clone ID: 700558458H1

<400> 3712

<212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700558461H1
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 tcgtacgaca gcgcccacgc ggacaaggcc gccacgttgc nnaccgagga ggagctgatg 180
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<210> 3716
 <211> 279
 <212> nucleic acid
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 <223> Clone ID: 700558462H1
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 cctatatattt agatagtctt ttttatnatn catcaggatt gttatttcat aattcagcng 180
 aaagttacct taatagaata gatccattct tccatagcta tcngcaaatn tcattagtgt 240
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<210> 3717
 <211> 277
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700558463H1
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 ccttaccccc tacaaatcca gccaatccag ttaccaatcc tgtggctctt atccaccacc 180
 atcatcagga agtgttctctg tcanngtgca tgctctctcn aagcacaatg ctcaagctat 240

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277

<210> 3718

<211> 284

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558464H1

<400> 3718

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agcccaagag gaggcaatag caaaatccga aagtgaagca ttaggggacc cagagaaaag 180

agaaacattg aaatcatcat tgggtggaggt ggttcacctg ctcttctccc tctcccccta 240

catattgccc acctcctcca ccaaaaccat gagccggttg gaga 284

<210> 3719

<211> 291

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558465H1

<400> 3719

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aagaagaaag gtcggggaat gtccatattt gtctctatac tagatgggga ttaccatgaa 180

tgtgtgaag atgccaagac tgcttgcaaa caacttagna cctacatcga ttacaaaatn 240

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<210> 3720

<211> 102

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558466H1

<400> 3720

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tnttgaggaa aaacagaaaa gttccacaca acatacgna tc 102

<210> 3721

<211> 215

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558467H1

<400> 3721

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cccgggccgg gcagaggacc cggttcaagg ccttcgtcgt cgtcggagac aacaacggcc 120

acgtcgggct gggcgtgaag tgcagcaagg aagtggcgac agctattcgt ggcgcgatta 180

ttctggcgaa ntgtctntta tccccgtgag gaggg 215

<210> 3722

<211> 285

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558468H1

<400> 3722

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tccaaaaggg tctttctacg tctccgcac gagcaccaag aaaatcctaa taatgggagg 180

caccaggttt attggtgtgt tttgtctag gctcctgtca aagaggggtca ccaggtgact 240

ttattcacia gaggtaaagc gcctgtcac aacagttgcc aggtg 285

<210> 3723

<211> 282

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558469H1

<400> 3723

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taaacagaga acagtacgtg taccttgcca nntgtcggag caggcggagg gtacgaagag 120

atggtgngt tcatgcagaa ggtggtggtg ggggtggacgc cggcgtcgga gctcacgggtg 180
gaggagcgc acctcctctt cggtggccta caagaacgtg atcggnctc tgcgtncnc 240
tggcgcatcg tgtcctccat cgaacagaag gaggaanggc gc 282

<210> 3724
<211> 283
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700558471H1

<400> 3724

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aaaaagaaat tgagctcttt gagggccaat ctcttttgta catgcagtta tatggcaacc 120
taagaactat gtgtcttgag tgggttggtc aacttggtat tccagacata atacacacnc 180
atggaaaacc cattactctt tctgagttgg tctcaactct ccaaattcca ccacctaagg 240
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<210> 3725
<211> 284
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700558472H1

<400> 3725

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gttactactc gtttctattc caagaatttg caaaacgtgc ctcttccat tgctcttgaa 180
accatttctg atgggtttga tgaagttggg cccaagagg ctgggagccc caaggcctat 240
atagatcgct tgtgccagtt ggatcagaaa cttttcatga gctt 284

<210> 3726
<211> 250
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700558473H1

<400> 3726

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actnngtgtc cgggnntggg ggnagtgnac ngtcgtcn cn atttatcaga gaccacatct 120
ctgttngngc ttctgggtgcc cttnttggac ttcttggcgc aatgctgtct gaacttatca 180
caaaactggac tatatatcc aanaaagcna tggctttaat ancccttcta gngatcatng 240
ngatcancct 250

<210> 3727

<211> 280

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558475H1

<400> 3727

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agcaatatgt gtgcagaagc cgctcctcga gtttcagcgt gccaaagtga agtttgagga 180
tgagttgggtg aagtttagctg aggaggatgg tggattcact tatagcatag tgaggccaac 240
tgcatttttc aagagtttgg ggggtcaggt tgagttagt 280

<210> 3728

<211> 278

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558476H1

<400> 3728

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taattcaaca agtgcagaaa ttcttagccg agagtactga tgcaagtga gcgagaaata 180
tgggattcca atttgctggc aaagctgttt actctgcggg atggatagct gccttttcac 240
tgtttatgga atgctgggct tctctaccca gaaatggg 278

<210> 3729
<211> 280
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700558477H1

<400> 3729

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atttgatctg tgtgtggttg cggcggcggc aatggcggag cacttgcat cgatattcgg 180
gacggagaag gacaggggtga atgcccgctt tacttcaaga tcggcgcgtg caggcacggc 240
gaccggtgct cgcgtctcca cacgaagccg agcataagcc 280

<210> 3730
<211> 281
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700558478H1

<400> 3730

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aagcggccga atacctcgat gggagtcttg tcggagacta cgggttcgat ccgtttgggc 120
tagggaagcc cgcggagtac ctgcagttcg agctggactc gctggaccag aaccttgcca 180
agaacgtggc tggggacatc attggaacca ggaccgagct cgcggacgtg aagtcacgc 240
cgtttcagcc ctacagcgag gtgtttgggc tccagaggtt c 281

<210> 3731
<211> 275
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700558479H1

<400> 3731

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ggaagtcctt agcaggtgtc ttcgatcatt ttgagtatga accaatagct gctgcaagtc 180

ttggtcaggt tcacgtgca agattaaggg gacaggagtt tttgtnaan gtanaanncg 240
 ggtccaaaan ctnnnnaaac annttnaaaa accgg 275

<210> 3732
 <211> 279
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700558480H1
 <400> 3732

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 tcggtggggc ttaggttcaa ttgagatctt tcttagcagg cattgtccct tgtgggatgg 180
 ctacaatggg aagttgaagc ctctgatgag gctgcttata tcaacaccat gtctacccat 240
 tacctcaatc ccattgattg cttactgtac gcttcctgc 279

<210> 3733
 <211> 290
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700558481H1
 <400> 3733

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 aagccagctg gattcaaaca agaaagcaat gtcgatccag tgcaagggtg gcatgcaaac 180
 atttatgtgc accacatcgg aagtgaatgt agggagcatg ctgaagccaa acaccctaaa 240
 atctgatgtt tatgcttgtt ttcctcatct caaaaagtga acatattgga 290

<210> 3734
 <211> 290
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700558483H1
 <400> 3734

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 nttgtcnag gattttctgt gttgatagat gagtcaagct taacaggnga acgtgcagcc 180
 agtcatggtg aattcngaaa anccatttct nctgtctggg accaagggtc caanncggtg 240
 tcgtgcaaga tgttggttac tatgttggca ncagncnctc aatggggcca 290

<210> 3735
 <211> 277
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700558484H1
 <400> 3735

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 tcaactattc caagcgtggc agaaggagca taagcgtgaa tatggcaacc aagaggagaa 180
 ggcnaagagt tccagatatt ccaaagtatt ngaggnacag caangagatg aatgcgagag 240
 gagtactac gacgcaacnt cgtntgggtc tgaacaa 277

<210> 3736
 <211> 279
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700558487H1
 <400> 3736

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 aaacaacggc gatcaggtta aaattgacag cttgaagggt aagaaacttg gtttgtattt 180
 ttcgcatcc tgggtgtggtc catgtcaaac atttacgcca actttggttg atgtgtacaa 240
 tgaggttgca aaaaaagggtg acttcagat cgttttcat 279

<210> 3737
 <211> 279

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<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700558488H1

<400> 3737

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gatctcagtg gaaagggggt gaccacaatt atcggaggag gagattctgt tgcagctgtg 180
gagaaagtag gagttgctag tgtcatgagc cacatatcta ctggtggtgg tgccagtttg 240
gagttattgg aaggcaaaga gctccaggag tctgtctct 279

<210> 3738
<211> 281
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700558490H1

<400> 3738

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cagttgcatt aaatgataaa agcaatgata agcctcttca cgttgccatg ctcccatggc 120
tgcccatggg tcacanatac cttacttctg aagtcgcaa gattcttgcn caaaagggtc 180
actttgtnac cttcataaac agccccaaaa acattgaccg catgccc aan accccganac 240
acttagaacc atncatcaaa ctctgaagc tacccttgcn a 281

<210> 3739
<211> 275
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700558493H1

<400> 3739

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caactatcca tggcaaaccg ctggctcaga cccgaggtgt atccactgtt cgctgcggtt 120
ggtgccgctg ttnggatctg tggattccaa ttggttcgta atatctgcat caaccctgaa 180
gtcaggggtga acaaggaggg aagaaaggca ggagtgttg agaatttgct nngggagaga 240

atatgctgag cattcctgag gaagtatgtg cgcca

275

<210> 3740
 <211> 277
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700558494H1
 <400> 3740

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 aactatccat ggcaaaccgc tggctcagac ccgagggtga tccactgttc gctgcggttn 120
 gtgccgctgt tgggatctgt ngatnccaat tggttcgtaa tatcngcatc aaccctgaag 180
 tcagggtgaa caaggaggga agaaaggcag nagtggtnga gaacttngct gagggagaga 240
 atatgctgag catttctga ggnantatgt ncgcaac 277

<210> 3741
 <211> 296
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700558501H1
 <400> 3741

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 gataactctc tcgtcaaccg tgcagttaca tggagtggcc tgtagtagga attggaagct 120
 agtgaagttc tgtaatgggg aagtcattgg acgtaagctt gtgttaaaag tgcttatggt 180
 ggcagcacta aggatgttag gcaccaccaa caacancaac atatatgcat gtctctcaca 240
 gctgacgttt ctactgaatc caagttgaga gacctagata tggaaagaag gaaccc 296

<210> 3742
 <211> 298
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700558502H1
 <400> 3742

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cataattcca tttccatgcy catggcttcc nnacgaaact tcaccgtttg antctcgca 120
gatgctcgca tccttcgtct cgtccacgcc cctgcngtcg gactcatggn cctctgcacc 180
caggccaacg ccactccctt cctgaccttc gtgactganc gtgtcggcgc ctccgtgtat 240
gtggctttct ccggcgtcca tatggccggc gagtccgacc cgaactggag aaatttga 298

<210> 3743
<211> 295
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700558504H1
<400> 3743

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ctcaaactcg ggatcacaga aaccaacaac agttcttgca ctgangtttc acgatgttgc 120
tggaacttgc acttggtttg tttgtgttag ctttgtttct gcacttgctc ccacaccaag 180
tncaaaatca aaagcacttc gccacctccc anacctcca agcccaaagc ctcgtcttcc 240
cttcattggc caccttcacc tcttaaaaga taaacttctc catatgcact catcg 295

<210> 3744
<211> 297
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700558505H1
<400> 3744

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cgccctctcn tcaagtnncg ggtncactct actacaagtc gtntttgcct gntgaanctg 120
tttacgacaa gganngnccc ggagttncat ggccgaanca gttgaatgcn cacttgaggt 180
cgttgatcct gagattgctg atattattga gcttngnaaa gctaggcaat ggaaggggct 240
ggaactgntn ancgtcagag anttcacttc tntgtctgtg atgcaagcag ttggatc 297

<210> 3745
<211> 297
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700558506H1

<400> 3745

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cttcttttct ggtctacaat gctatgtagc ttggagcggg gttacgggtga cagagtgaga 120
gtgagagtga gaantgggtc tgctttctaa cagagtggag agacatgagt caagcctggg 180
gatcacatct acacttacag agccgttttc acctattccc atcatggcat ttttgttggg 240
ggaagcaagg ttgtacattt cagacctgaa aggaacttaa agtcaatgac tgagaca 297

<210> 3746

<211> 300

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558508H1

<400> 3746

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aaggattgga aggaacttct tgaggtgctg gcacgggtcgc aaagactccc ctcttgatgt 120
cattgccatc aacgacaccg gcggcgtgaa acaagcctct caccttctca atacgattcc 180
atcctcggaa ctttcgatgc tgatgtcaag cctgttggca gcaatgtcat ctccgtggat 240
ggaaaggaaa tcaaagttgt ttctgaccgc aaccctgcc aacctccttg gaaggacttg 300

<210> 3747

<211> 298

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558509H1

<400> 3747

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gtcgaggagt cttttctctc ctcccttgaa ggctgctgct tctgagaacg ggtcgggacc 180
gccgtggagc ctccgccgga gcaggccgtg ccgggtgccg agccttctct gcctccgggtg 240
gacaatagtt ctgtggggac caatgggtct gctgttgccg ttgagagtga ggtgggta 298

<210> 3748
 <211> 300
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700558511H1
 <400> 3748

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 naattagcct cacaanaaat ctttgtaaga natcttcaca cnctattttn gcatcantta 120
 cgctgcctag accgnntctt cagattttgtg gtagaccttc anacattgat ttgtacgtca 180
 acccgantct cttctggagc acatagagca nnaatatctg ctgaanctgg aagacaagat 240
 tgggantttg gaagattggt aaaacatgtn cttcgncaat gggttcccat ctctgctag 300

<210> 3749
 <211> 295
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700558512H1
 <400> 3749

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 cttccatggc tctctcatcc ccaccttggt ctggcaaggc cgtgaagctg ggcccatcag 120
 ccccagaagt gggaaggggtg agcatgagga agaccgtcac caagcaggtt cctcaggaag 180
 cccatggtac ggcccagacc gagtcaagta cttgggcca ttctctggcg agccccgtc 240
 ctacctaacc ggtgagttcc caggcgacta cggctgggac actgctgggt ttccg 295

<210> 3750
 <211> 293
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700558513H1
 <400> 3750

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 ggcgttgact tttttttttt gcctgtgaga gagtaacgca atggaacaac caccaccga 120

<400> 3753

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 ggtagttaca gaagccttca ccaaacaccg atttccccca ttcagttcca gcnnacgatg 120
 tcgcattccg atccttcaan cagatncttc ctacaccccc actctaactg gaaccctcaa 180
 gttcaccact acttccttca gagcctacgg ngccgancac ttctctcgna tntccaccgg 240
 ctaacgcgcc cttctngcta ctctgcatc cgagtcagna cgctcaggtc gac 293

<210> 3754

<211> 291

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558518H1

<400> 3754

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 actgcaagag gcgtgcatcc acaggggttaa gcatgttgaa gaagaggctt agttcctggg 180
 ttcaaagagg agtttttgat cattgggtgag aactcaatag atgatatgctt ggtcttgagt 240
 ttaaggtctc ttcagtttga ccttgcatgg gaacgttgta gacagcttca a 291

<210> 3755

<211> 293

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558519H1

<400> 3755

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 gcgaagaaga agctcagagg cttcatcgct gagaagagat gcgctctcta atgctccgtt 180
 tggcatggca ctctgctgga acttacgacg tgagctcgaa gaccggtggg cccttcggaa 240
 ccataaagca cccctccgaa ctcgctcacg gcgctaacaa cggctcttgac atc 293

<210> 3756
 <211> 292
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700558520H1

 <400> 3756

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 ttgcattctc gactcccgag gaggcattcta gagcactcct ggagagaatg gcaaaatggt 180
 ggtaagcaaa cctctgtatg tgactctagc ccaaaggaaa gaagatagga gagctagact 240
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<210> 3757
 <211> 282
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700558521H1

 <400> 3757

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 gcaacggctg cggaggctgc aagatgtacc cagactgagc tacactgagt caaccaccac 180
 cgagaccttg gtcatgggag tggcacctgt taaggctcaa tttgaggggtg ctgaaatggg 240
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<210> 3758
 <211> 294
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700558523H1

 <400> 3758

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 gaagcgatag atctgctgtc aggagcaaat aaganatttg aattcccggtg aaatggggta 180

gtgatcttca gagtgaacat gagcgttata taactgaaga ggcattcagt ggatgcccag 240
tgataattag agactatcca aaggatatta aagcattcta tatgcgacag aatg 294

<210> 3759
<211> 292
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700558525H1

<400> 3759

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cagttattgc cgttgttgtt ttgtttccgg ttcggtttat ttcaatgac gggcgggcgtt 180
gacggttgga ccgggcatgg acatgccgat catgcacgac agcgaaccgtt acgatctggt 240
acgcgacatc ggggtccggaa atttcggcgt ggcgaggctg atgcaggata aa 292

<210> 3760
<211> 292
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700558526H1

<400> 3760

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atcacagctt aaagggttgc acaattttct cgttgaaaaa gaggaaaaat tttgagggcc 180
ctcaagcatg atttggggaa gcattacgtg gaggctttta gagacgagggt tggaacatta 240
atgaagacct taaacttggc aagcaagtct ttgaaaaatt ggatggcagg ca 292

<210> 3761
<211> 293
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700558527H1

<400> 3761

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 cctcatggat cctactcaat tccaattcga ctccctcccc ccaacaagag acctcgtcgt 180
 gccattgaag acatccacaa tgtcacgggtc nnnnnnnnnn nnnnnnnnnn nngccgctg 240
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<210> 3762
 <211> 219
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700558528H1
 <400> 3762

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 tgaggttgat gtattcggca ttccaaggcg atgtggatgg aattcgcgag gcgttgaggt 180
 ctggtgtgat tgtgaattac aaggatattg ataatcgca 219

<210> 3763
 <211> 290
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700558529H1
 <400> 3763

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 cttgtatcat catcttctct taccttctca gcggaggctg caagacaaag tcttggacca 120
 agatcactcc aatctccatt tggcttctcc agaaaagcct ccttcttggt aaggcagctg 180
 ctaccccccc tgtcaagcaa ggatcagaca gacctttgtg gtttgcacaa aagcaaagtc 240
 tttcttactt ggatggcagc cttccgggtg actatggatt tgacctctg 290

<210> 3764
 <211> 240
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700558530H1

<400> 3764

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 tggacctcat gacgacgggt tgcagccgaa acgacaacat caatagtttc acaacaaagc 120
 cgaggaaaat gccgtccaag aagctgcttc cggcttagag agcatcgaga agctcatcag 180
 actcctctcg caaacccaaa cccaaacccg ccatcnaatc aacaacaata gctctaata 240

<210> 3765

<211> 286

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558531H1

<400> 3765

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 tttgtggtaa caggattcaa caatgaagag cacaggacag tgaggtagtt ggcctaggag 180
 aatgcgacga ctgcaggcag aacaatatta agaataacca cgctttctca ggntacgtgt 240
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<210> 3766

<211> 213

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558532H1

<400> 3766

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 taatctgatt ttgttaagtt atgtagaaaa ttttcatata gaactattct ttatatggca 180
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<210> 3767

<211> 289

<212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700558533H1

 <400> 3767

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 aacagatcnn aattattcac caatcaaaac cacttgacaca tttttagttg aacacaataa 180
 tttcatctat cactcccggt ttagccccc cttgaatact acacagctag gggtttacttt 240
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<210> 3768
 <211> 290
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700558534H1

 <400> 3768

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 atccaattca tgtgtcacat atgctaacag tgctagagaa tctccttttt tgatcttgta 180
 gcttcccaac tcaactccaa caccaatgga tcaactcctg tgaggggaga gacagtggcc 240
 aagttgaagg tggcaatcaa tggtttcgga cgcattggta gaaacttcct 290

<210> 3769
 <211> 288
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700558536H1

 <400> 3769

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 agagggccaa agaagaggac tttgatgctg aagaaagaga ctactcaatg aagaaaatga 180
 gcaagaagag gagctttttg atcaagttgg tgattgcttg ggaactttga taaaaacatt 240

caggacatct ttcttgcctt tctttgatga gctgtcctca tacctaac 288

<210> 3770

<211> 255

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558537H1

<400> 3770

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tcttggttcc ctaagtattc tcctatctaa aatgttaaag agtggccacc attctgcatt 180

ggaagctata gggggccatgc ttagaggctg tgtgtatctg caatgaagag gcctagccac 240

cttcatcacc atatg 255

<210> 3771

<211> 291

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558539H1

<400> 3771

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aggaaagaga aagaataagg gttaatttgg cctaattgaa attcggagtg aaactcggga 180

tctcgtccag gcttccatgg aattgaatta ataattcaat tccatttcta ttaataaaaag 240

agtgaagca gaaatttaaa tggaatgtat aggggtggggg caacaatatc a 291

<210> 3772

<211> 236

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558540H1

<400> 3772

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actccataac tacggtaaac ggcgtcgttc agcagctgga ggccaaacag ggtagacct 120
ctctcacaag gccagtttca tcagagacca gatcgatcat cttctccggt cacagccaca 180
gacatttgc cctcaccctc ctccacttca caaagactat ttgcccctc acaccc 236

<210> 3773
<211> 288
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700558541H1

<400> 3773

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atggctgttt ttgcatcttc atcatcttta caaaccatt tcattcctcg ctcttggcac 180
cttcttttga aggtgcacat gatcacaact cgtgggtgggt gcgagcgaga tcacagaaac 240
gcattgggtca aagattacac acacaggaca tagctagagg gctgagaa 288

<210> 3774
<211> 264
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700558542H1

<400> 3774

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ttagtctctg gggctgaagt aggccaagg ctttctttgt gtttggagat tcacttggtg 180
atagtggaaa taacaattac ttggctacca cggcacgtgc tgatgccct ccttatggga 240
tgattaccct ccaagtcata gacc 264

<210> 3775
<211> 285
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700558544H1

<400> 3775

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 agacatgtca ataatatcac atgacaacgc tcatgcggat gggccacgag gcgcaccgac 180
 gacgaggtga tgtcaatggt cgaggagtgg ctggtgaaac acgacaaggt gtacaacgcg 240
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<210> 3776

<211> 284

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558545H1

<400> 3776

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 gttgatgggtg tccttttaac gtgattttgc tcctctctct tttccctgc tgtaatttta 180
 atcattttca gggatcatgt tcctttgtgc agttgcaaac tccaaaccaa catgtcaaat 240
 attgctctca gtttaata tagagaatga ttcccttgta aaaa 284

<210> 3777

<211> 286

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558546H1

<400> 3777

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 ctcaagtcca tggctggctt cccaccagg aagaccaacn atnontacct ccattgctag 180
 caacggtgga agagtgcaat gcatgcaggt gtggccacca gttgggcaag aagaagnttg 240
 aggatctttc ctacctgcca gacctgatgg tgcccaattg gnnagg 286

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<210>      3778
<211>      118
<212>      nucleic acid
<213>      Glycine max

<223>      Clone ID: 700558547H1

<400>      3778

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cttaatatca catngactta aaaaaangaa ganggggggn caaagttgag ncccgnng   118

<210>      3779
<211>      283
<212>      nucleic acid
<213>      Glycine max

<223>      Clone ID: 700558548H1

<400>      3779

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atcatagctc aggattaagg ctctagaatt gtatagttac taaattctat ttttttcat  180
acaatagttg aattttggat ttccagaatg tatgtttgtg tagtatctac tttctgcct  240
agagagtcta taattaatgg ctataataag acgaatggca tcc                       283

<210>      3780
<211>      284
<212>      nucleic acid
<213>      Glycine max

<223>      Clone ID: 700558549H1

<400>      3780

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tcctccttcg ccggctacac cgtnaaggcc accgttcgcg cacaagtgat ccgaaaaaaaa  180
caaaccactt gattggcctc gacgggtgcta aggagagatg cacctctacg aggcgaatct  240
tctcgaagaa ggttccttta actctgtcgt tcagcannaa gcgc                       284

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<210> 3781
 <211> 285
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700558552H1
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 cccagctgt taccactgtt caaccgtgcc ggtgccggca tggttgctcc attcactggc 120
 ctcaagtcca tggetggctt cccaccagg aagaccaaca tgacattacc tccattgcta 180
 gcaacggtgg aagagtgcaa tgcattgcagg tgtggccacc agttggcaag aagaagtttg 240
 agactctttc ctacctgcca gaccttgatg atgcacaatt ggcaa 285

<210> 3782
 <211> 285
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700558553H1
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 cccgacaatc ccaccaagtc ctgcaaggcc agaggcgctg acctcagagt tcattttaag 120
 aacactaggg agactgcctt tgccatcagg aagttgcctt tggttaaagct aaacgatact 180
 tagaggatgt tttggccac aaacaggcta ttcctttccg acgcttttgt ggtgggtgtg 240
 ggaggacggc ccaggctaag aacagacact ccaatgggca aggac 285

<210> 3783
 <211> 287
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700558554H1
 <400> 3783
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 cgcgtagctg tggatctggc aaganaacaa ggaagggagg ttcattgcgg atctgaattc 180

gcagtgttag ggctttgaag ggtttttcca ttttcttcaa tggccacgcc ctttcccatt 240
cccgtcaccg cagctcaggt tggaacgtac ttcgtaggac agtacta 287

<210> 3784
<211> 255
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700558556H1

<400> 3784

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cgcgttnant catcgccaac gaccaaggga acagaacnnc gccgtcttac gtcggattca 180
ctgacaccga gcgtctcatc ggtgatgcgg ccaagaatca agtcgccatg aaccccatca 240
acaccgtctt cgatg 255

<210> 3785
<211> 284
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700558557H1

<400> 3785

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agaggaagaa agaaaatcac acagtcttcag tttcagtttc agcttcgctt tgtagaaatg 120
gctactctat caagcttcat tgctacgccg aagaatccca gaccactttt ctctcaggtt 180
cctcattcat gtcgatggac aaatgcttct tgaaaatcag caccagcgga cactttacag 240
atttctcttt aagggtctaaa gcaacatgta accaaccatt gtta 284

<210> 3786
<211> 283
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700558558H1

<400> 3786

<212> nucleic acid
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 <223> Clone ID: 700558561H1
 <400> 3789
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 cctatatntt agatngtcct gtnttattat tcatcggatt gttatntcnt nattcagctg 180
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<210> 3790
 <211> 292
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700558566H1
 <400> 3790
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 ctgantntn tggcttccga aggctcatca aggcttctnt tcctntcntg gaaaatctca 180
 gaaggntttc aatccgtnaa tggcttacag acctnatgca gtttggaanc agtggagggt 240
 acaagaaggg tgtgacggag caaaactgaa aggttgccat taaccgggtt gg 292

<210> 3791
 <211> 284
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700558567H1
 <400> 3791
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 tgacttcagt ggaaccagac ttcaaactca acttcagtca agagaaagca atgcatcca 180
 aaagggtctt tctacgtctc cgcacgcagc accaagaaaa tctaataat gggaggcacc 240

agggtttattg gtgtgttttt gtctaggctc cttgtcaaag aggg

284

<210> 3792
<211> 87
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700558568H1

<400> 3792

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accccttnc tgaggctncc atcggcc 87

<210> 3793
<211> 282
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700558569H1

<400> 3793

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ttgaggagac ctttcatgtg ggacgccaca agaaggagga ggagcacaag ggtgagcagc 120
accatggtgg agaatacaaa ggggagcatc atggtaacac agtactgaat acaaaggaga 180
gcatcatgtt ggtgagcaca agccggagca ccatggagga gaagagcaca aagaggggtt 240
cctagacaag atcaaggaca agatccacgg cgaggagggg gg 282

<210> 3794
<211> 112
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700558571H1

<400> 3794

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<210> 3795
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<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700558572H1

<400> 3795

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ggcatccaca gcttcactat gagtcaaaac tgtatatgct tcttcaagga ggaacgggga 180
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ttggaccaag tctggaagat ttattcaatt attgtaatcg gaa 283

<210> 3796
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<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700558575H1

<400> 3796

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ttttgtncaa caagctatgg aggtttcggg gattgaagcn cacaagcgaa ctggcgcgcg 180
tctgaattgg cttctangga agttggattt ngtantctga agaacaattt aagggttttg 240
aatggtagag ttagtttttg taggaataat atacggggg 279

<210> 3797
<211> 279
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700558576H1

<400> 3797

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gagcttcctg atggacaagt tatcacaatt ggggcgagag attccgttgc ccagaagttc 180
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279

<210> 3798
 <211> 280
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700558577H1
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 tccaaggagc ttctcaagga aatcgccctc cccacggcct tcttcccctc aaggacatgg 180
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<210> 3799
 <211> 270
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700558578H1
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 ccgcttctct gaatcccttt ctgtnatcat ctgtctttcn actcgtgatt ttttgggttt 180
 gcctcaccaa aaagattcan actttgaaaa tttttctcga aagccaggtg ttttcagaat 240
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<210> 3800
 <211> 281
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700558579H1
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 tgccaaagat ggtgtttgac tactacgcat ctgggtgcaga ggaccagtgg actctgcagg 180
 agaacagaaa tgccttttcc agaattttgt ttcggccacg tattcttatt gatgtgagca 240
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<210> 3801
 <211> 279
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700558580H1
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 tcggtggggc ttaggttcaa ttgagatctt tcttagcagg cattgtccct tgtggtatgg 180
 ctacaatggg aagttgaagc ctctgatgag gcttgcttat atcaacacca ttgtctaccc 240
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<210> 3802
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700558581H1
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 acttgggcaa tcgatcactc gccgtcttgc ccaggagata agaaggctgt tgctcgccga 180
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<210> 3803
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 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700558582H1

<400> 3803

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ttattattcc aactogcttc actctttctt ctcattctcc ttcttccttt tccgettaca 180
gttacagagg cccacacca aaacgcccct tcctcgccga ctgggtctcc caaaacgacg 240
acctcgttcg caccctccca 260

<210> 3804

<211> 279

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558583H1

<400> 3804

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cagctcctgc cctttgggag cgggagaaga agcgccccgg agcctcgcta gcgttgcttg 180
tcatgcaagc aacgctagcg agtttgatcc agtgcttcga ctggatcgtt aatgatggta 240
aaaaccatca tgttgacatg tctgaggaag ggaggggtga 279

<210> 3805

<211> 277

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558584H1

<400> 3805

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caatccacat cggccaggcc gggattcagg ttgaaacgcc tgctgggagc ttactgcct 180
cgaacacggc attcagcctg atgggcagat gccaaagtac aagaccgttg gtggaggtga 240
tgatgctttc aacaccttct tcagtgaaat ggggacg 277

<210> 3806
 <211> 279
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700558585H1
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 gctgatgccg ccaacaacaa attctacaat ctctgtacgc agaatatgct actttctttg 180
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<210> 3807
 <211> 280
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700558586H1
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 actattccta tgatcccttc caggatttga gtcaaaatca ttcttgtctt tacttcnttt 180
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<210> 3808
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 <212> nucleic acid
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 <223> Clone ID: 700558590H1
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gaagacattg tagaagtgct ctgcaatttt ccacagttga agttgaanat acggggaaaac 180
 ttgagtccac gaaggtagtt gctgctagta tgctaggaaa gagcttaca gctggggaag 240
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<210> 3809
 <211> 274
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700558592H1

<400> 3809

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 aactatccat ggcaaaccgc tggctcagac ccgaggtgta tccactgttc gctgcgggtg 120
 gtgccgctgt tgggatctgt ggattccaat tgttcgtaat atctgcatca accctgaagt 180
 cagggtgaac aaggagggaa gaaaggcagg agtggtggag aatttgctnn gggagagaag 240
 tatgctgagc atttcctgag gaagtatgtg cgca 274

<210> 3810
 <211> 279
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700558593H1

<400> 3810

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 aactatncca tngcaaaccg ctggctcaga cccnaggtgt atccactgtt cgctgcgggtt 120
 ggtncgccgt gttgggatct gtggantcca attggntcgt aatntctgca tcaaccctga 180
 agtcaggggtg aacaangagg gaagaaangc aggagtgttg gagaactttg ctgnagnnag 240
 annagtatgc tgagcatttc ctgaggnant atgtncgca 279

<210> 3811
 <211> 275
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700558594H1

<400> 3811
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 ggtgccgctg ttgggatctg tggattccaa ttgttcgtaa tatctgcac aacctgaag 180
 tcagggtgaa caaggaggga agaaaggcag gagtgttga gaatttgctg agggagagaa 240
 gtatgctgag catttcctga ggaagtatgt gcgca 275

<210> 3812
 <211> 274
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700558595H1

<400> 3812
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 ggtgccngt ttgggatctg ggattccaat tgttcgtaat atctgcatca accctgaagt 180
 cagggtgaac aaggaggga gaaangcagg agtgntggag aactttgctg aaggagaga 240
 atatgctgag catttcctga ggaatatgtg cgca 274

<210> 3813
 <211> 294
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700558601H1

<400> 3813
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 ttcagcggca cgaagatgga ggaatactc aagtagaggt gttgataagc ctcccacatt 180
 taaacttcca gaggcaagcc ttggcaagga caagtgaaca gtacttcatt taccttctac 240
 tatatcattt agtcccggtg aattagttca tttatagcct cctaagtta acca 294

<210> 3814
 <211> 289
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700558604H1
 <400> 3814
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 ctctcactct ttcccaaccc aatgcgcctt aaagagactt gaggtgacag aattctctgg 120
 gcttagatcc acttcatgtg tcacatatgc taacagtgc agagaatctt ccttttttga 180
 tcntgtagct tcccaactca ctccaagac caatggatca actcctgtga ggggagagac 240
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<210> 3815
 <211> 288
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700558605H1
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 ttcaatgccca ttatgagctt tccaccaac taaccaata gtccgccatc agtgaaattt 180
 acctcagagt tatggcatcc caatgtgtac cccgatgggc gagtttgcac atcaattctt 240
 catccaccgc gtgatgaccc aatgggttat gagcttgcaa gtgagcgc 288

<210> 3816
 <211> 287
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700558606H1
 <400> 3816
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 aagggagaga agaagttggt gggttgagtt ggattggatt tctaattctaa tctatacctt 120
 ncttttttcc tatgctttta aggcacaaac ccttctttct tccctcttct nnnnnnnnnn 180

nnnnnnnnnn nnntgccttt acccttttagg gaaggaagaa ggaacaacta tactactatt 240
atccttatta ttgttattat tgtaattaat ctttttatnt agttatg 287

<210> 3817
<211> 157
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700558607H1

<400> 3817

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ggncagganc gnctgnattg cancannanc ttacaca 157

<210> 3818
<211> 292
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700558608H1

<400> 3818

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tttgtccttc gctctgtctc tccaatgacc tcaccaacaa ccgcttcact tccaatacgc 120
cacatgctgc cgccaaagtt tccgtcttta ccgtcagatg ctcttcttcg ggtagtggag 180
agaggccttg gaagaattca gatgctagac ttgtgcttga agatgggtca atttgagag 240
caaaatcgtt tgggtgcttca gggaccaag ttggcgaggt tgttttcaat ac 292

<210> 3819
<211> 292
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700558609H1

<400> 3819

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gacctcaaac tatctcagac tcagagactt gtccatcact tcaatcccaa aactcccata 180
gaggaagcgg ttactcccc aacatcatgg tacactcatc cctctttott ccaccttgag 240
ctcgatcgtg tcttctacag aggctggcaa gttgtgggat ccacagagca ga 292

<210> 3820
<211> 279
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700558610H1
<400> 3820

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ttgctttgac ctcaagagct ctgcgccgtt cgtgttctcc cgagccgacg cgtccgagtc 120
accgagtttc aacttcgagc tttggaaggc gtgccgcgcc acgtcagcga ctcttgccgt 180
tttcgcgccc ttctacttct cctccgtcga cggaaaaacc tcgtgcnccg ccgtcgacgg 240
cggcttagtg atgaacaatc cggccgcggc ggcgggtcag 279

<210> 3821
<211> 286
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700558612H1
<400> 3821

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ttatttaaaa atgtacacct gtttatgtgg cgattctaca cattttttct ttgataagat 120
gaggctaaga aacatgcggt gcgctaaagt gttgtatttt cttggacaat aaaccctctt 180
ggttgatcgc tgaaagtttg ttaaagagc aaatttcacg ctttcaaag tttatgcact 240
tttgaagtg gtttgctctg tcatatgaac tcagttccaa ggtttt 286

<210> 3822
<211> 286
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700558613H1

<400> 3822

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 tcgnccaacc cggtttccac tttttcaacc ctctcgccgg cgaatgcctc tccggtatcc 180
 tctccaccag gatctcctcc ctcgatgtcc gcatcgaaac caaaaccaag gacaatgtgt 240
 ttgtgcagtt gctgtgttcg attcaatacc gagtgattaa ggaaaa 286

<210> 3823

<211> 286

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558614H1

<400> 3823

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 accggtgggg cccagatggg gcgaatggtg agcggaaaag tgaaggagat gcttcaggcg 120
 ccgacgcccg agtccaagat ggtggacgag gccacgctgg agaccatgga agaaccat 180
 tggggcatga atctcagaat ctgtggcatg atcaacagcg accagttcaa cggtcttgag 240
 gtcgttaagg ccatcaagag aaagatcaat cacaagagcc ccgtcg 286

<210> 3824

<211> 286

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558615H1

<400> 3824

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 ctattatggc agttggcaaa gggagacttc aaggtgcact gaacagtccg gcactggaca 180
 ttogatctaa tttcatgcca caattaaatt acttgaaaat gatgctagac tacaattatt 240
 gatgcaaaga tctcttgtag cacagcaaaa ccttagattt tcgana 286

<210> 3825
 <211> 287
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700558618H1

<400> 3825

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 tcatttttgt ggaagtgagg gtaagaatgt ttctgggggt aattcagcct gtcaggggtcc 120
 tcatggcttg ttacattcag aatctttctac agtagataat ggaaaagctc ctagtatggg 180
 tgctagcacc ccaaaagtgc caaaatcccc ttggatgcct tttcctttgc ttcttggatg 240
 ctatcagaaa tcaggttcct cccaagggtg ttgatgtaat caaaata 287

<210> 3826
 <211> 288
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700558619H1

<400> 3826

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 acagtгнаac cactggcgga agataaatcg tctactnntc ctgaaatagc nattggcatt 120
 gatatnggca catcacaatg tagtgtngct gtgtggaatg gntcccaagt ggagcttttg 180
 aagaacacna ggantcnnaa gattatgaaa tcatatgtna ccttcaaaga taacatccct 240
 tctggtggag tncagcagtc aactctccca tgaggacgmn atgtngtt 288

<210> 3827
 <211> 286
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700558620H1

<400> 3827

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 gaggaccttc aacttttctt ctctcaagc tgccaaaatt cctcgctccc aagcctttt 120
 cgtcgtcaga gctccgatt cggagttcga agccgncgtt gtcgccggtg aggttccgcc 180

gngcctccc gtncgccc gaccggcggc tccggttgga acaccggtgg ttccttcact 240
tccacttcac cggcgctctc gtcggaaccg gaagtcgcgg cgcttt 286

<210> 3828
<211> 287
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700558621H1

<400> 3828

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gggaaagaag ggtggcaaga agaaagccgc tgatcccttt gccaaagaaag actggtacga 120
tatcaaggcc ccttccctct tccaggtcaa gaatattggc aaaaccctcg tctctcgtac 180
ccagggaacc aagattgcat ccgaaggact caaacatcgg gtttttgagg tctcattggc 240
tgatctccaa ggggatgaag accantcctt caagaagatt cgtttga 287

<210> 3829
<211> 285
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700558623H1

<400> 3829

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gactaacatg gtgaaaaaat atgacaagga aaagaacacc tggaatgaat tggggaggct 180
tccagtcagg gcggattctt ctaatggttg ggggttggtt ttcaagggtt gtggagagca 240
acttttggtt gtgggtggac aaagggtcca gaggtgaatc tattg 285

<210> 3830
<211> 226
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700558624H1

<400> 3830

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 antattcgna gaancctcgt ctctcgtacc cagggannna agattncatc cgaagnctca 180
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<210> 3831
 <211> 288
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700558625H1
 <400> 3831

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 cttaaataac tcagtgggtg catcctcttt gaggaactc tctaccagag cacagctgca 120
 ggcaagccct ttgtggaagt cttgaaggag gctgggtgtgc ttcttggcat caaggttgac 180
 aagggcanag ttgagcttgc tggcactaat ggagaaacca ccactcaggg tctagatggc 240
 cttggtcagc gttgcgcaa gtactatgaa gccggtgcac gttttgcc 288

<210> 3832
 <211> 286
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700558626H1
 <400> 3832

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 agtttcatac tcaggaaata atggactgtc cttgaaagtt tctgaggatt cgggtttgac 180
 gggtgttgcg tttgaggtca acccggtttt tgatcttcaa tctacagtng tttctttctc 240
 tgatcccaag gngaataatt tgaaccgctt tgnnntcnt tgtacc 286

<210> 3833
 <211> 288
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700558627H1

<400> 3833

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 ctccnccttc ctccacccca ccaccgtcct ccgcgcncn ccctnctcna ccaactnncac 180
 cacctccccg cgcnntgccc tcaccgtccg ngcngncngn ggcaagttcg agcgcaagaa 240
 gccccacgtg aacatcggca ccatcggcca cgtggaccac ggcaagac 288

<210> 3834

<211> 284

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558628H1

<400> 3834

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 caccagttac aagcatttac acatgnctat gcagagctag agtcaagttt atctgggttt 180
 aatgtttctga ttgaganata ctttgctgat gtccctgctg aagcatacaa aacactcacc 240
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<210> 3835

<211> 259

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558629H1

<400> 3835

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 ctctcctcta attggccatt gcttaagttg acttgctgcg aagggtgctt tgatcatttg 180
 aagcgctga aaatcggtgt gcgaattttg agggttctgt ncttgtaac cgaaaaggcc 240
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<210> 3836
 <211> 285
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700558631H1

<400> 3836

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 tgagttgtgc tcacactgtg agaaggaagc tgtgaatgtt tcccttggaa accttctaac 180
 ataccattt gttagagatg gcttggtgaa caagacattg tcactaaaag gaggatacta 240
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<210> 3837
 <211> 292
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700558632H1

<400> 3837

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 cccagagaag aggttgtacc caggtggcag ttacttcgac ccattgggcc tggcctcaga 180
 cccagagaag aaagccaccc ttcaattggg cggagatcaa gcacgcccgt cttggccatg 240
 gtgggcttct tgggctttgc agtccaagcc gccgccaccg gcaagggcc gc 292

<210> 3838
 <211> 287
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700558633H1

<400> 3838

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cctaaattat tagatagtta tattatctct ctgcgtttct ttcagcaatt ttctattttc 180
 tcctctcatg gcttcagatt ccaaaaagga tttccctgct gatgacaaag ctggaacaga 240
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<210> 3839
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700558634H1
 <400> 3839

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 caaacatgtg gtttcctaataaacactat tnttnnctt ttatcaagaa tggngtattg 180
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<210> 3840
 <211> 285
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700558635H1
 <400> 3840

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 aggcttttgg cttggaacct gctgcagcta aactcacttg ctcccttcag cctgatctca 180
 aagaatttgc tcaaaaatgt gtcgacgcta caaaattgc aggattcgcc cttgccacct 240
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<210> 3841
 <211> 283
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700558636H1

<210> 3844
 <211> 286
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700558640H1

<400> 3844

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 tcagagggtg accctttgaa ggcgggtgcc tttgaaaaac ctccatttag totcagccaa 180
 atcaagaagg tcattccacc tcaactgtttc cagcgttctg tttccgctc attctcctat 240
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<210> 3845
 <211> 285
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700558641H1

<400> 3845

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 gttaagggtc tccctgattt caaatttgag accatacccg atggcttgcc gccttcggat 180
 aaggatgcaa ctccaggatgt tccagcactg tgcgattcta ctaggaaaac ttgttatggt 240
 ccattgaaag agttggtgat gaagttgaac tcttcttccc ctgaa 285

<210> 3846
 <211> 281
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700558642H1

<400> 3846

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 ttggatgttc tgaacttcac tcctctcaat aacaggccca tccgtattat ntattcgcat 180

cgtgatccca gtatccgtaa angtggacaa gganatatat ttattaagnn tttggatngg 240
gcaattgacc acaaggcatt gcangatacc ttttctacat t 281

<210> 3847
<211> 282
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700558643H1

<400> 3847

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gatggtgag ttcattgcaga aggtgggtgt ggggtggacg ccggcgctcg agctcacggt 180
ggaggagcgc aacctcctct cgggtggccta caagaacgtg atcgggtctc tgcgtgccgc 240
gtggcgcctc gtgtcctcca tcgaacagaa ggaggaaggg cg 282

<210> 3848
<211> 281
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700558644H1

<400> 3848

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gcacacgaga tgcttgact gggagggaaa gcttatcctc ccatttgctg atcaattttg 180
gttttaggtat ctgtttggct ggttgatgcc acccaagggt tctctcctca aggcaactca 240
aggtgatgct ataagaaact attaccatga aatgcatgct a 281

<210> 3849
<211> 282
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700558646H1

<400> 3849

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aacaatggcc gataatgcaa caacgcaagg nagcaacacc ctattttctc cttacaagat 120
ggccaaattc aacctctctc ataggggtggt gttggctcct atgacaagat gcagagcggt 180
gaactggatt ccacaggcag cgcttgctga atactacgct caaagatcaa caccagggtg 240
atttctcatc agcgaaggca ccttgatctc cccactgct cc 282

<210> 3850
<211> 280
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700558647H1

<400> 3850

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ctcacctgaa aatgtcttgc tgcggtggta actgtgggtg cggaagctcc tgcaagtgcg 120
gcaacggctg cggaggctgc aagatgtacc cagacttgag ctacactgag tcaaccacca 180
ccgagacctt ggtcatggga gtggcacctg ttaaggtca atttgagggg gctgaaatgg 240
gtgtgcccgc tgagaacgat ggctgcaaat gtggaccaa 280

<210> 3851
<211> 284
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700558648H1

<400> 3851

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acactacttc ttgttgatgg tagcagtcca attgatgtta ccgattcaca gtgggagctg 120
tatattgtgt gtcagaagaa aactgatcag cagggagaga tccaatatag gttgactggt 180
tttactgctg tttatcgatt ttatcactat cctgatggat tcccgaatgc nactaagcca 240
gatactggta ttacctcctt accagcaciaa ggggttatgg cgat 284

<210> 3852
<211> 96

<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700558649H1

<400> 3852

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gaggaggaga gacccacggn nataccctta cagctt 96

<210> 3853
<211> 271
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700558651H1

<400> 3853

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ggtagcatgg caatgccatg cgtacgatat gttccctctc cgaatgaaca ctggctatgg 120

tgcccgtact ccggagggtca aatgcgcaag ttggaggctt gctgtggaag cacacaacat 180

ctttggcttt gagaccattc ctgaagagtg cggtgaagca acanaggaat acatccatgg 240

cgaacaatat agatcagact ccaaaacagt t 271

<210> 3854
<211> 282
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700558652H1

<400> 3854

agctcataga acaaccacct ttcttccact cctgtactc ttcccccttc ctctgtctc 60

caagactcac tctactctcg acctcgacct cttgccactt cccagccact tcgacgcttt 120

cgcagatctg gtgcacgcgc cgtcgttcgc ttaccggcgc gtggagaggc atctcgagaa 180

tgagttgcgt ttgcagagcc tctctgaccg tgtggcggan tggagtcgcg gttcgaccgt 240

gtgctcggcg gagatcggaa gtacacgtgg acagcggaga tc 282

<210> 3855
<211> 282

<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700558653H1

<400> 3855

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ccggccatcc agcgcccttca attctccctt ctggactaca aattctggtg ctctatttg 120
gaacaacaac tcctctttta ccgttggagc tagaggtcca attctgctgg aggattatca 180
tcttgtggag aagcttgcaa attttgatag ggaacgtatc ccagaacgtg ttgtccatgc 240
caggggcgct agtgcaaagg gtttctttga ggtcacccat ga 282

<210> 3856
<211> 283
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700558654H1

<400> 3856

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tgatgttggg actatgcttc ctattgttct ctgcatttcc acttgcttc tctgagagat 120
gccaccacaca agacaagaaa gcgttgcctc aactccagaa ggacctcggc aacccttatc 180
acatcatatc ctggaacgca aaggaggatt gctggcgagt ggttctgctg cgtaaagtgt 240
gacgagaaaa caaacgcgt cattagcgtt gccttatcat ccc 283

<210> 3857
<211> 282
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700558655H1

<400> 3857

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cactgcaaga ggcgtgcac caccagggtta agcatgttga agaagcaggc ttagttcctg 180
ggttcaaaga ggagtttttg atcattggtg agaactcaat agatgatagc ttggtcttga 240

gtttaaggtc tcttcagttt gaccttgacg ggaacgttgt ag 282

<210> 3858
 <211> 284
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700558656H1
 <400> 3858

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 gtccacgcat ttcagcagtg atcttcagcc atcctccaaa catttgagga agaaaaacat 180
 tggaattctc gaacttggga tactgagtgc ccgcaacttg ctgcccataga aggccaggga 240
 agggaggact accgatgcct actgcgtggc caagtatggc aaca 284

<210> 3859
 <211> 282
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700558657H1
 <400> 3859

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 tggaagcact tattttccct ttcgngtatt aagcatgtaa gtctcctcaa tctgtttacc 120
 agctaagggt ccagttcgcg tgaagtcaact gcacacgaan ccagnaaccg tnaacgancc 180
 cacttnacg gncaagggtg ntgctcctaa gtgggcccag aagacaataa ctttgccctcc 240
 ccttanacgt ggttgnatt taatcacttc taagatagtg aa 282

<210> 3860
 <211> 279
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700558658H1
 <400> 3860

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cgcgctgaca ctgctttgcc ggagactctc accagaatcc ggtgccagaa gcctctctct 120
gtccgatgct ctggcgattc cccttcgggc tctgtgggtt cggagttcga tccgaangtg 180
tttcgtaaga accttactcg gagtaagaat tataaccgca aaggatttgg gtacaaggaa 240
gagaccctcc aactcatgaa tcgcgagtac accagtgat 279

<210> 3861
<211> 278
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700558660H1

<400> 3861

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atactctggt tctgtcttga gccaggttta tgtgggtcatg ctcccctgta atgaatagga 120
aatctccctg aaatgcaaaa ttctttatcc tactgctctt agtcttcttn gtncacatat 180
atatgcatga acatttatac tagcatgcag attaggatcg atgcagatcc atnttcggag 240
gtgaaattca cttcaagaca actcaggttc agcgtggc 278

<210> 3862
<211> 278
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700558661H1

<400> 3862

gntttctggt gttggtggtg acggcattgg gaagaagctt gtgaactcaa aagatggacc 60
tccaaccttt gagcagccca anatgactct ggagaagctc ttgacgtatg gtaacatgct 120
tgtccaagaa caagagaatg tcaagagagt ccaattggct gacaagtact tgaacgaggc 180
tgcacttgga aatgctaacg aggntgctat tagtaggggt tctttnttcc antctnnnt 240
tgnaggcana gcaaacttgg caagtaaata tttctggt 278

<210> 3863
<211> 281
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700558662H1

<400> 3863

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 tcacgtacga cgagaagcgg aaactaggtt atggtaccca gaaggagagg ttgggaaagg 120
 actccattaa gcccttcgat gcttgccttc tctgcctcaa atccctaata gaccctatga 180
 gctgccagaa gggccatctc ttttgcaaag agtgcattct ccagtgcctc ttgtctcaga 240
 agaaagacat tcaaaggaag cttgcagccc atgctgctca g 281

<210> 3864

<211> 281

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558663H1

<400> 3864

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 tttttaatga ttcgacaacg catagtaaaa attcaggctc acgtgagagg tcaccaggctc 120
 aggaaaagct gtgggaagat aatttgggtcc gttggaatct tggagaaggt tattttacgt 180
 tggcgtcgaa aaggtagtgg tttgcgtgga tttaaaccgg aggccaattc tgagggaact 240
 atgatacaag atgtatctca acagatgatg actatgatgt c 281

<210> 3865

<211> 283

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558664H1

<400> 3865

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 ttgtctaagt gtgctgcaca actcttggat ctctaaacc gtgttgaaga tgctgatatt 120
 gaagacattg tcgaagtgct ctgcaatttt cccacagttg aagttgaaga tacgggggaaa 180
 cttgagtcaa ggaaggtagt tgctgctagt atgctaggaa agagcttaca agctggggat 240
 gttgttttcg agagggtgtt taatgctgnc tattcagctt tgc 283

<210> 3866
 <211> 279
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700558666H1

 <400> 3866

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 ggagaattat tacccggttc ttttccgtgg agtcaatgga acagttgctc atgaattcat 120
 cattgacttg anaggcttta ngaatactgc tgggaattgag cctgaagatg ttgcaaagcg 180
 cctcatggac tacgggttttc atgcaccaac aatgtcatgg cctgtgcctg gcacactcat 240
 gattgagcct actgagagtg aaagcaaggc cgagttaga 279

<210> 3867
 <211> 280
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700558667H1

 <400> 3867

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 aggcaagggt ttgggtaagg gaggagccaa gaggcacagg aagggtgctcc gcgataacat 120
 ccagggaatc acaaaacccg ccattcgccg tttggctcgc agagggcggc gtcaagagaa 180
 tcagtggcct catctatgaa ganacccgcg gcgtccttaa gatcttcctc gagaacgtta 240
 ttgcgcacgc tgttacctac accgagcatg ctaggaggaa 280

<210> 3868
 <211> 279
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700558668H1

 <400> 3868

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 ttccccagct gttaccactg tcaaccgtgc cgggtccggc atgggttgctc cattcactgg 120

<400> 3871
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 gcgctctcgg attccacatg cctgcggant gggaaaccca cgcgcagtgc tggatgggtt 120
 ggctgaacg tgccgataac tggcgtgacg gcgccgttca cgcccaacgc gtgtttgcna 180
 gggtagcgtc agcaatctca agattcgagt ctgtaacagt ttgtgttagt tctgcacagt 240
 ggganaacgc gcggagtcag ctaccggagc atatcaggtt 280

<210> 3872
 <211> 281
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700558673H1

<400> 3872
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 cttggtgaag atgcacggag gcacctatgg ggtattcatg aagttgctcc aagagcaaga 120
 ggaaaagtgg gacctctaca agctcgtcca aggagagttc ccggagcagc atgacttgcc 180
 tctctacgat ggctttgtca tcagtggaag ctgctatgat gcacatgcca atgacctatg 240
 gatccttgac ctcatnnnt ctcgttatca aattggactc c 281

<210> 3873
 <211> 278
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700558674H1

<400> 3873
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 cagttctgca atcttttggg acagtcgtat aatagtccat tgagcgtgac tgtagcanca 120
 ggggtccagg ttttgccacc actcctcaaa tttatgaatg tcatggcagg gaagaagaat 180
 gaatggcagt ctatgaacca gttaccggtg ccggttgagt tggaccgtga gttccagttc 240
 cattctatct ntgtttgtcc tgtctccaag gaacaagc 278

<210> 3874
 <211> 278
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700558675H1

<400> 3874

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 cagcactgtc actgagtcgt tgtcttgcnaggataatgg ncttggttatg aacttctaca 120
 aggaatcatg ccctcaggct gaagacatca tcanagaaca agtcnagctt ctctacaagc 180
 gncannngaa cactgctttc tcttggtctca gaaacatctg tccatgactg tgctgttcag 240
 agttnnngatg cntcactgtn gctggactcc acaaggag 278

<210> 3875
 <211> 275
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700558677H1

<400> 3875

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 ttcactctgcc tatctcaaac atcttgcata tcatacagca aaatgtggat ggaaagttgt 120
 tgtcagtaat caccgaggac ttggaggtgt ttcaatcacg tctgattgtt tctacaatgc 180
 tggatggact gaggatgtcc gcacagtggg taattatcta cacaaagaga accccagggc 240
 acctttgttt gttgttggga ctagcattgg agcta 275

<210> 3876
 <211> 278
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700558678H1

<400> 3876

cgcatcgac cttcaactta nctattcca ctntaatcg nanatancnn tgctagaaga 60
 agagacaaag tgtgtctntg tgtntgagan anagagcaat ggctggctcn tgggcacgcc 120
 gttctctgat tgttctagnc ancanttcct gcggatgtct atntgcgatn nccattgcta 180

nggangaagc cancaagtta tggacggtca tcggcattga tcttggaaca acctattcat 240
gtgtcggngt ttacaagnat ngncnnnntt gaaatcat 278

<210> 3877
<211> 184
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700558679H1

<400> 3877

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caaagcaaatt gatccacaaa caagaacccg atttcaatct caatcacctc aaattatatt 120
acggaaagct gtttccgtnt gctgnttttn ttagatgggt gtcgtatgnc aacgatggan 180
agca 184

<210> 3878
<211> 280
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700558680H1

<400> 3878

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aaattcaaatt ccccttctct tgaaattgct tcagggtccg aactcgcaca ttaaaacgac 120
gctggatcag gaaatggctt cccttcaaag ctcgcaacgt tcttgggact tcctattacc 180
tctctctccc cttcttctct cgacaaagct cgattgatct tngaaggatt ttgganaana 240
tgctnaaaga naatgagaaa gatcgagatc tcttctctgc 280

<210> 3879
<211> 94
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700558681H1

<400> 3879

ggtggcaact ggaaatgcaa tgggaccact ggaggaggtg aagaagattg ttactaant 60

taaatgaaag ctaaagttcc ctgnagaaga tggt

94

<210> 3880
<211> 278
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700558682H1

<400> 3880

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nnnnnnnnnn nnnnnnnacc tcgtgggaga accaaggcga caccgcgtgg ggaactgaag 120
aaggtggcca cgaagaaggg ggtttcgctg aaaaagctga ggaagataag atcttcggtg 180
ggaacttgcc tttcgacatc gacagcgaga atttggcgctc gctcttcggg caggctggca 240
ccgttgaggt tgctgaggtt atttataata gggccact 278

<210> 3881
<211> 227
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700558684H1

<400> 3881

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caaaccaatg cctggaactc gntngatcna tcttctcatt canaatgatg ttgcgcntga 120
aatatgtacc gagaagaana cgnttntgnc agttgaanac atcattgctn tgattggtga 180
taagtgcgat ggagttattg gacagttgac tgangactgg ggagant 227

<210> 3882
<211> 277
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700558685H1

<400> 3882

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agtacttggt gaagatgcac ggaggcacct angggggtatt catgaagttg ctccaagagc 120

aagaggaaaa gtggganctc tacaanctcg tccaaggaga gttcccggng cagcatgact 180
 tgcctctgct acgatggctt tgtcatcagt ggaagcngct atgatgcaca tgcnaatgan 240
 ncatggatcc tganctcatt gctctcgta tcaaatt 277

<210> 3883
 <211> 277
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700558686H1
 <400> 3883

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 gaaacangag ccaaaccat ctggccactg ctattnagag gcnaagttgg tgctgctgct 120
 nttnatgtta gtcctagang actcattgtg gtagctgctg ctgcaccaa gaagtcattg 180
 ctccctggtg tcagangngg tggnaacctc gtngaccag aatggcttga nggatcgcta 240
 ccaggtgact atggctttga ccactaggn cttngga 277

<210> 3884
 <211> 277
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700558689H1
 <400> 3884

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 gcaaaaggca aagatggctc gcgagaagaa catcgagaag cagaaggccg cctcaaagg 120
 aagccagctg gattcaaaca agaaagcaat gtcgatccag tgcaaggtgt gcatgcaaac 180
 atttatgtgc accacatcgg aagtgaagtg tagggagcat gctgaagcca aacaccctaa 240
 atctgatgtg tatgcttggt ttcctcatct caaaaag 277

<210> 3885
 <211> 277
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700558690H1

<400> 3885
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ttcaaagaaa taggatggga ganttgaag acactgaggc ttacgaggaa gagctcatcg 120
actacgaaga ggaagaagaa aaagctcccg attctgctaa acccggttgc gaatctggca 180
agaagggtta tgttggcatc catagtccgg gatttcgaga cttcctgttg aaaccagagc 240
ttcttcgagc cattgtggat tcaggatttg agcatcc 277

<210> 3886
<211> 275
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700558691H1

<400> 3886
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agcttgattt ctccaacccat gaagtgtttt cgagtcctaa catgggtgag cttcccagca 120
gcggttcaat ggacagtttc ttgcagcagc ttctcaagga cagcagccc tgcacccaca 180
cccacacctg taaccctccc ggccccgatt tctcccacac tcacacgtgc tnccatgtcc 240
acaccaaaat cgtccccgcc cctgaggagg accat 275

<210> 3887
<211> 274
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700558692H1

<400> 3887
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gggaaagaag ggtggcaaga agaaanccgc tgatcccttt gccaaagaag actggtacga 120
tatcaaggcc ctttccctct tccaggtcaa gaatattggc aaaaccctcg tctctcgtag 180
ccagggaacc aagattgcat ccgaaggact caaacatcgg gtttttgagg tctcattggc 240
tgatctccaa ggggatgaag accactcctt caag 274

<210> 3888
 <211> 273
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700558693H1

 <400> 3888

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 cagttctgca atcttttggg acagtcgtat aatagtccat tgagcgtgac tgtagcagca 120
 ggggtccagg ttttgccacc actcctcaaa tttatgaatg tcatggcagg gaagaagaat 180
 gaatggcagt ctatgaacca gttaccggtg ccggttgagt tggaccgtga gttncagttc 240
 cattctatatt ttgtttgtcc tgtctccaag gaa 273

<210> 3889
 <211> 275
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700558694H1

 <400> 3889

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 aactatccat ggcaaaccgc tggctcagac ccgnggtgta tccactgttc gctgcggttg 120
 gtgccgctgt tgggatctgt ggattccant tggttcgtaa tatctgcac aaccctgaag 180
 tcagggtgaa caaggaggga agaaaggcag gagtgttgga gaactttgct gagggagagc 240
 agtatgctga gcatntcctg aggaagtatg tgcgc 275

<210> 3890
 <211> 274
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700558695H1

 <400> 3890

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 atatggcgga agaacacaga tgccangcac cgngcttctg cgccaacaat tgcggtttct 120
 ttggcagccc tgccacgcag aatatgtgct ccaagtgcta ncgcnatttc cagctcaagg 180

agcagcaatc ttccaacgcc aagatgggtc tcaatcagtn gctgggtcct tcaccgccac 240
gggtgatttc tcanncgteg tcttcttctt cggc 274

<210> 3891
<211> 304
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700558701H1

<400> 3891

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agagcctctc aaatacgant ttaagttcca tnagctcatg gaggn tacta ccaaagactg 120
caactccttc gaactttgta acacacaatg gcaaacgaag aggggtgtggc agggtaagag 180
ttgctgctga ggaaaaatca ttttctacga gtgacactgt tacagatgac tactatgcag 240
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<210> 3892
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<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700558704H1

<400> 3892

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<210> 3893
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<212> nucleic acid
<213> Glycine max

3893 3894 3895

<223> Clone ID: 700558711H1

<400> 3893

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tgacacctct tgttgatggt gttgcaattg atgcaagttc aagcctggta gactttcatc 180
acttggtgggt cacacatcag tactcaaggg tacctgtttt tgagcaacgt gttgataata 240
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<210> 3894

<211> 300

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558712H1

<400> 3894

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acggcataga tccgacgggg aagtacgtcg gnaactcaga tctgcaactc naggcgtga 180
acgtctacta caatgaagcc tcgtgcgggc gcttcgtgcc acgcgcggtg ctgatggacc 240
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<210> 3895

<211> 302

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558714H1

<400> 3895

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tggtgcccgt actccggagg tgaaatgcgc aagttggagg cttgctgtgg aagcacacaa 180
catctttggc tttgagacca ttctgaaga gtgcgttgaa gcaacaaagg aatacatcca 240

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ag 302

<210> 3896
<211> 305
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700558715H1

<400> 3896

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atgcttccac tgggtcggct atgccatcac caaaatccta ttcagctagt ggacttgaca 180
tgacagcgnt gagtccattg gctcttagtt ccacatcttt gccgatgncc aactgtttca 240
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aaciaa 305

<210> 3897
<211> 309
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700558717H1

<400> 3897

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atgaacactg gctatggtgc ccgtactccg gaggtgaaat ggcgaagttg gaggcttgct 180
gtggaagcac acaacatctt tggctttgag accattcctg aagagtgcgt tgaagcaaca 240
aaggaatata tccatggcga acaatataga tcagactcca aaacagttta ncaacaagct 300
tacttttat 309

<210> 3898
<211> 130
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700558718H1

<400> 3898

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acaatcatga ctttgtcntc atgggctact tccagtgttg aagaggtggc ttcaacagga 120
cctggcattc 130

<210> 3899

<211> 303

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558719H1

<400> 3899

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acggcaagga ctaccaggag ccggcgccgg cgccgctggt tgacccgacg gagtttacgt 180
catggtcgtt ttacagagca gggatagcag agtttgtggc cacttttctg tttctctaca 240
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<210> 3900

<211> 301

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558720H1

<400> 3900

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tatacctaag ggtgccgttg aaggttaccg tattgctggt ggccccctcg gtgaggtcac 180
tgacccaatc taccaggtg gcagcttcga ccattgggc cttgctgatg acccagaggc 240
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g 301

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 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700558721H1

<400> 3901

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 cttggttgct gagcttccat tggaggagca ggaacagtgt cagaaatctc aaagtgatgg 180
 gccagaaaac ctcatgtctg ttgaggaacc ttattcattt cctccctttt tggatttaga 240
 taagaagtca agggaaattc agaattctca ggtcaagaat gaggcagttg gtatgcataa 300
 ct 302

<210> 3902
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 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700558722H1

<400> 3902

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 tcaactccgc tccctccggt tccggtctgt acagtgcccg cgtctgcac aacctcgctc 180
 tctgtttctc tcaactcactc ctggtcggcc acggccaggc agaggctctc ctctcacaga 240
 acaagaccca ttttcoggaa ttattcctct gcggttccaa aattacagtg gtg 293

<210> 3903
 <211> 302
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700558724H1

<400> 3903

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 gtacaccaat ggggtgattt cttggtactc tgtcatctct atctgccacc aagctaggct 180
 ctatagctat tgaagctgct cttaaaaggg ccaatgttga tccatccctt gtggaagaag 240
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 tt 302

<210> 3904
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 cgcgaaatgaa gggagaatta gagttgccac cagggttcag atttcacccc actgatgaag 180
 aattggtgaa tcactacttg ttaggaagt gcgcgggtca accaatcgcg gttcccatca 240
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 gcg 303

<210> 3905
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 <212> nucleic acid
 <213> Glycine max
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 acagcgctc agcaatcttc atagcctaaa agtaatgcgc ggttgtgaac ttctattaga 180
 caccaatgcg ttncctcatca aatcttacca ngctaacctt gaaggatcta catgcattcc 240
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 tagt 304

<210> 3906
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 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700558727H1

<400> 3906

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 gacaacgtca aggccaagat ccaggacaag gaaggaatcc ccccggaacca gcaacgtctc 180
 attttcgccg gaaagcaact tgaggacggc cgtacccttg ctgactacaa cattcagaag 240
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 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700558728H1

<400> 3907

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 gtctgaaccc acgttcccag tatctttctta tctgcgcgag tgggtgactgc cccatttgcc 180
 ttttcgaacc caaaacactt tcttttcttc aaagatggat gctttatcta agaagaacga 240
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 t 301

<210> 3908
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 <213> Glycine max

<223> Clone ID: 700558729H1

<400> 3908

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 ttgcagcaaa agtctactca gtccatttcc aaggcttttg gtttgggaacc tgttggagct 180
 aaaaagggtca catgctccct tcaggctgat ctttaaggact tggctcacia gtgtgttgat 240
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<210> 3909
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 <213> Glycine max
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 catggcacca ggcncatccc tcgcnccggc gccggcgccg ggaaccggga ggcccgaagc 180
 accacttcaa cggcgagcgc cagggtcaagg acttcatcca cacactctta cattncggag 240
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 ggc 303

<210> 3910
 <211> 303
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700558731H1
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 ttctcttgca accttagctg ctgttcaacc agctgcgctc aatggccttg ctggaagtgc 120
 cctctctgga actaagctct ctttcaagcc ctctcgccac actgtcaaact ccaagaactt 180
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 cct 303

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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700558738H1
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 gttttacaga tgcttatggg aggaggtggg tcattctcag cagggggggcc tggaaaaggg 180
 atgcactcaa ggctatatct taatgtgctg aatgaatatc agcagattca atctttttct 240
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<210> 3915
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700558739H1
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 ggtggcctat ctgtagcagt tcctggagaa cttgctggcc ttcagtaggc gtggaaacaa 240
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<210> 3916
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700558740H1

<400> 3916

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acatcatgtg ggtcacctga gacatcttgt caatctgcta caaccatgaa cttgtttcc 299

<210> 3917

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<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558741H1

<400> 3917

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tccatatctg agtgtacaga aaagggttaac tgtataacct ccaatttacc tccaacgaac 240
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<210> 3918

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<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558742H1

<400> 3918

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gcttgaagcc gtagaaaatc aaaatgggat taggaattac taccatggga atcatattgc 180
agganccaat ctcaagtaca ccagtcacg taaatttgca tctaaattgc aggccagaag 240
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 <213> Glycine max

 <223> Clone ID: 700558743H1

 <400> 3919

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 cagctatatc acccttccat tatatgctct tgtaactcag atgggttcaa ggatgaaaac 180
 agcagtatct gaagagcaaa caacaaggc tctgaagaaa tggcacatgg atgc 234

<210> 3920
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 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700558744H1

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 aggacaatcc tgttcttgaa agacgatgga tctttaaaagc cacttgctat cgaattaagc 240
 aagcctgcaa cagtgagtaa agtgggtgtg cctgcaacag aagggtgtga gagtaca 297

<210> 3921
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 <213> Glycine max

 <223> Clone ID: 700558745H1

 <400> 3921

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 caaagggtgt tccattcccc aagaaccagg caatgaggat atactcaagc ctgtggaatg 240

cagatgattg ggccacaagg ggaggtcttg ttaagacaga ttggacacag gctccttt 298

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<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558746H1

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gtgggccatg ctcggggcct tgggctgcgt cttccccgaa ctgttgctcc gcaacgggggt 180

caagtttggg gaagctgtgt ggttcaaggc cgggtcccag atcttcagcg aggggtgggct 240

ggactacttg ggcaacccaa gccttgctca cgcccagagc atcctcgcca tctgggc 297

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cctctctgga actaagctct ctttcaagcc ctctcgccac actgtcaaat ccaagaactt 180

caggagtggg gccgtggtag caaagtatgg tgacaagagt gtgtactttg atttgaggga 240

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<210> 3924

<211> 304

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558748H1

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 tttgttacia ttatcaggtc gtctgcaact cctgacatca cagattgaga aggtctctcc 240
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 tgng 304

<210> 3925
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700558749H1
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 aacagctatt cccgagcctt ctgatttcaa gacatgggat gggcaaaaac ctatttctgt 240
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 aaga 304

<210> 3926
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700558751H1
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 ccacattacg ccttccgctc ttcgcaaccc ttaacactcc ttcttctcct tctcttcat 180
 cttccttccc ctctctcatt caagacaggc ctgtttttgc tgccctgcc cccatcatca 240
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<210> 3927
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 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700558752H1

 <400> 3927

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 gccaccctgt ccactaccct ggagactagc atcnnnnnnn nnnnnnnnnn agatgaccaa 240
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 ttc 303

<210> 3928
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 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700558754H1

 <400> 3928

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 cttgaaatgg atgaggagta tgaaggaaat gttgaggcta ctggagagga ttattcagtg 240
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 <223> Clone ID: 700558755H1

 <400> 3929

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 ttgctggatt gctatttggt gtactacta gagtcaatgt ctccccctct cttgttttgg 240
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<210> 3930
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700558756H1
 <400> 3930

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 gtcttcgcna acaccaaccc caagttcccc actatcctcc aaaactacat ccgaaacgcg 240
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 <223> Clone ID: 700558757H1
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<210> 3932
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<223> Clone ID: 700558758H1

<400> 3932

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 taaaaacctc gacgcctttc ctgcgcccga ggatcacttg ttgcagaaaa cccaatctgg 180
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<211> 285

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558759H1

<400> 3933

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 gaagatttct tcttgcaaag tgacggttgt ggagagtgga acgcgcgctc ttcagtatct 240
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<210> 3934

<211> 285

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558760H1

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 gaagatttct tcttgcaaag tgacggttgt ggagagtgga acgcgcgctc ttcagtatct 240
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<223> Clone ID: 700558762H1

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 cagtgggtggc aacccatgca gaaaccttgc cccctgaagt ttactggaag tcgaagcttc 180
 ccaccactcc aatgccgaaa gccattacag atatccttca cccagatttg gcagaagaca 240
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<223> Clone ID: 700558764H1

<400> 3936

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 gtataaggag aaagtctacc ctgaaaacaa ggtgccatca ttggagcaca atggaaagggt 240
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<223> Clone ID: 700558765H1

<400> 3937

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 ta 302

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 <223> Clone ID: 700558766H1
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 gatggccaaa gctgataaac aaacaagact cagtctcacg aggtggagtg cggattggaa 180
 aagtgtact gttctatatg agcaggcagc taatgggttt agagttgcca aggactatga 240
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 caaatgcaac aattgaggac attgggagcc cagaaaaact gattgcttct cttggaccat 240
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<210> 3940
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 <213> Glycine max

<223> Clone ID: 700558768H1

<400> 3940

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ttgaggggaag aaaagaccaa tatgctgggt gtggccactc ttactttggg ttcattccacc 180
acaatggtgg ctgagaacca tgctcaacaa catgccacca ctcttgcttc agccaatgga 240
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<210> 3941

<211> 297

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558769H1

<400> 3941

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ctttgtgaaa aggcattctca ccggagaatt cgagaagaaa tatgagccaa ccatcggtgt 180
ggaggttcac ccattggatt ttttcacaaa ctgtggaaag attcgatttt actgctggga 240
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<210> 3942

<211> 297

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558770H1

<400> 3942

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acaggnacng ctacgannaa agggaaagtt tcttctctn nttcttctnc aactogtacn 180
cagnanctag gatccattca cancaccttc ccccaaagan tcatcaattc taaggcacca 240
ncaatcgtgt gggacgcacg tgantttctgc gggtttcatc tcttntctca acatagg 297

<210> 3943
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<223> Clone ID: 700558773H1

<400> 3943

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 nntngaaccc caaaactant atcttctttt cccctcgtnc tctgctgtgc ccactaagga 180
 acacacagtc acagaccag gaaattcaac tccaagaaca cgccgctcaa cttegatttc 240
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 tga 303

<210> 3944
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 <213> Glycine max

<223> Clone ID: 700558774H1

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 ctgcatact ggagttgaaa ggaagcatag acattggaga acgtcatgcn gatggagatc 180
 aaggcgatac caactctgct gggaagacag caaagaagat ctatgacaag aaatttgcag 240
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<210> 3945
 <211> 294
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700558777H1

<400> 3945

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 catggccgac ggtccggcga gtccaggcgg cggtagccac gagagcggcg agcacagccc 240
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 <213> Glycine max
 <223> Clone ID: 700558778H1
 <400> 3946

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 gaatctgaga actcactcat cgaagccctt cttggcatcc aaggacgcgg acgttcttct 180
 tctcgtcagc agctcaatgc tgttgagcgt gctgttcaag tcctggagcg gttagggggg 240
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<210> 3947
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 <223> Clone ID: 700558779H1
 <400> 3947

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 tcttcagaga atcagcgaag tgtgaggtat agggcacggc aacggtggag atggcgccaa 180
 cttccgctac cgctcctga atttcatgct cactttccaa ctgaagctac gcggcatttt 240
 caaataccgc ctgagggtca caatatctcc gtggaattga accacttttt ggtcant 297

<210> 3948
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 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700558781H1

<400> 3948

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 gctttttntt ccgagagtga aagtcaagca ccagttgtct catgntctgc caanagcaaa 180
 agggctccga tgacatacnt tttgtctttt ggtgnctnca ccataacncc agcaccttct 240
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<210> 3949

<211> 295

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558783H1

<400> 3949

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 catctgaatc tgtaaacgag ggtcaccccg acaagctgtg cgaccagatc tctgatgcag 180
 tgctcgatgc gtgccttgaa caggaccctg acagcaaggt tgctgtgag acatgcacca 240
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<210> 3950

<211> 297

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558784H1

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 tatccctaac cctaaaaccc aaggccantg ttacatgtaa ggccaccctg nccactaccc 180
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 cgaactcttc tacgtcgtcg tcttgtnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240
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<210> 3954
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700558788H1
 <400> 3954

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 ggagatagta acagtaacaa tgctgccgtt ggacaagaag cagggtgccct tgaggctctt 240
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<210> 3955
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700558789H1
 <400> 3955

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 tgggtgaagg gncaaaccct tcgccaacct tctgcatcag ttgtgagntg caacccccacc 180
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 aaaacagtgg cttcaccaag gaggggtatt ttggccatgg ntgagtcacaa tgc 293

<210> 3956
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 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700558790H1

<400> 3956

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gaaatccact accactgggc acctgattta caagcttgga ggcattgaca agcgtgttat 180
tgagagggtt gagaaggaag ctgctgagat gaacaagagg tctttcaagt atgcctgggt 240
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<211> 293

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558791H1

<400> 3957

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gcacgtaaag gagcgtntaa nnattcgcag cacgtgttgt tattnnnnnn nnnnnnnnnn 180
nnnnnnnnngt ggcggcagtn gtagtatntg gaaattgagg nttgagtggg gtgtgtgaaa 240
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<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558792H1

<400> 3958

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ctggagcttc agctcccagt tcagccttct ttgggaccag cttgaagaag gttattgcct 180
caagggtccc caacagcaag gtttccggtg gaagcttcaa gattgttgct gtagaagaga 240
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<223>      Clone ID: 700558793H1

<400>      3959

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ggtgacacta attttgaga ctggtttgcc gcagtacaaa tggacaaagc agcttcgggt   180
tttgagaaaa tgtattcatt caatgcaact cttctagatg gtgtaaacaa tacantaatc   240
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<223>      Clone ID: 700558794H1

<400>      3960

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atggaacagt tgctcatgaa ttcattcattg acttgagagg ctttaagaat actgctggaa   180
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<223>      Clone ID: 700558795H1

<400>      3961

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cagatgtgga ggtggctagg ttgtttgttc aggagaaagg ggaggttggt tctcagttga 180
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<210> 3962
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<223> Clone ID: 700558796H1
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aaaatttctc cgaagactgt gtattatcgt tatcgttcac gccgttaggt ttgctgttc 180
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<223> Clone ID: 700558802H1
<400> 3963

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taccctttat aaattgcac tgggtgaggt tgtaactacc aaccctactg ttggtagcaa 240
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<212> nucleic acid
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<223> Clone ID: 700558803H1

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 cacgaggtgc agactcaatt gggatattga atttctgtga tggtcacgtg gatatccggt 180
 tactgctttt ttgtccttaa gttttctttt gttcttctcc ccatgatgat atggtttgac 240
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 <212> nucleic acid
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 <223> Clone ID: 700558805H1

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<210> 3966
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 <213> Glycine max
 <223> Clone ID: 700558806H1

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<210> 3967
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 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700558809H1

 <400> 3967

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 nnnnnnnnnn nnnnnnnnnn atggtcgtgt ccctggcggg gttcgcggc gcgtgttacc 240
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<210> 3968
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 <212> nucleic acid
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 <223> Clone ID: 700558810H1

 <400> 3968

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 agtgccttgc ctttttatct ttggggactc tatgtngata gtggaaacaa caatgaactt 180
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<210> 3969
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 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700558812H1

 <400> 3969

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 aacaatgccg ttaatcgcat gatcggaagt ggtttgcagg tgtagacttc tatgcgataa 180

ataccgatgc tcaggcacta ttaaattctg ctgctgagaa ccctattaaa attggagaag 240
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<210> 3970
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 <213> Glycine max

<223> Clone ID: 700558813H1

<400> 3970

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 acgaaatcca gagcaagaca tacttggaag tgaagggact ggaactgcta atcagtgcc 180
 aaccattgaa ggtggagtgg actcatttgc ottcaaggca gggaaataca aggccagaa 240
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<210> 3971
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 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700558814H1

<400> 3971

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 cgcccaaagc tgatgggtct ctaagcttct tgggtgtgga gactgggta gaaaagggtgc 180
 ttataaccaa tctcttgctg cttttcagat ggggtgtaata ggagagaatt ggacgttgat 240
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<223> Clone ID: 700558815H1

<400> 3972

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 ctccccacc acaaagaacc caaggagttt gtctcgtgga ccaacttgct gaacttggag 180
 tccttagctg gaaactagat gctgataacc atgaaaatga tccagagctg aagaagattc 240
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<210> 3973
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 <213> Glycine max

<223> Clone ID: 700558816H1

<400> 3973

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 ctgatcccaa gatcaggatt tatgatgttg gtatgaagag aagggtgttg atgagtttcc 180
 tttctgtgtc catctggtta gttgggagaa ggaaaatggt tcaagtgagg ccctggaagc 240
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<210> 3974
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 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700558821H1

<400> 3974

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 tcagaganaa ctattggcag cttgagattg gagtacaaac cttgaaagaa ttgaatcgaa 180
 tacttgagga gcaagtacaa aatcatgcat tcataaatgt agatcttgac actcagctaa 240
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<210> 3975
 <211> 278

<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700558823H1

<400> 3975

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tagtgaatag ccagaatgca aatgggaggg ttgacaaga aatccaagct cactaattag 180
ttcatccttg gatggtacaa gaaattatgc attggggaat cctattgtgg aaactgccca 240
aaattttgac aatgtttttc caccataatg tggttctc 278

<210> 3976
<211> 207
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700558826H1

<400> 3976

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atgctgctgg tgggtgaactc ttcgagagga tatcaatgct ggtcgattga gtgaagatga 180
ggcaagattt ttctttgcaa caactaa 207

<210> 3977
<211> 290
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700558827H1

<400> 3977

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ccatggcaca tgcagctatc acgtgcgggc aggtgcgaat agcctgatca attgcatcgg 180
ttacctccag aacggaggaa cgccgccgtc gggatgctgc aacggagtga agagcctcaa 240
tgccgccgcc aagaccaccg ccgaccgcca gacggcgtgc aatgcctcaa 290


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<210>      3978
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<212>      nucleic acid
<213>      Glycine max

<223>      Clone ID: 700558828H1

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atthttgtgaa gcaatggagc tgggtccaaa agagagtttag aatcttacat tgatggggca  180
ccaaaaactg ttgctgatca gagggccagg aagatcgcta ggttcaaacg tcagagagct  240
gcagaatcaa agttgttgga aataaaagag cgaaaggaac gactgggcyg                289

<210>      3979
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<212>      nucleic acid
<213>      Glycine max

<223>      Clone ID: 700558830H1

<400>      3979

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ncnctgagga ccttantact gcaattaaga gtggaaaagt cctgtctcca actcatatta  120
tttccaccat ttctgatgac agaggagagg agccagctat gctgggtgtac ccatgtcttc  180
cattattgaa aaaggttatg gtgttggtga tgttatctct gcttttgtgg tttaaacgaa  240
gccttccccg ttactgtact caatttattg agatatgcat catgcttgtg cc           292

<210>      3980
<211>      292
<212>      nucleic acid
<213>      Glycine max

<223>      Clone ID: 700558831H1

<400>      3980

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gcagatgnga atcctncaaa atcctctccc aatgcaagtc ccattacatc anacatgtgg  120

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agtnctttat tgtggaaaca aaataagaaa gtttcaccac aagttctgct aaatttagag 180
 tgatggcnat taagtctgac aatagcatca tcaacaggct agagggtcta cttagtttgg 240
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<210> 3981
 <211> 286
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700558833H1
 <400> 3981

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 gccgccgaag ctggctccgc cgtcggagaa ttactcagaa caaccacgtg tcattcctgg 180
 ggaagagacc gaagaggaag tacgttagga ttcggaggaa cagtggatac gtgagaaaga 240
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<210> 3982
 <211> 289
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700558834H1
 <400> 3982

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 cttcacacta attcagaatc aacatgaacc caatgatgct aactctccta agccgttgga 180
 gattctgcag atgaaccctg ttctccggt tttgtccaag accttcgacc tcgtcgacga 240
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<210> 3983
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700558835H1

<400> 3983

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cagtttatta cttttntctt ttggttccta gctagtttcc tagggacatt tattagcatt 180
ctctttttga taatgtatca ttgttagttt agcagattgg ttgtnttatt ttacaatttc 240
ctaacaatat gaactttctg gatgcagaag ctatggaact atg 283

<210> 3984

<211> 284

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558836H1

<400> 3984

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gtctgagtgg gtgaagggac aaacacttcc caaccttctg ctgcatcagt tgtgagatgc 180
aaccacacca ccccatcagg cctcaccatc agagctgggt cctatgctga tgagctcggt 240
aagaccgcga aaacagtggc ttcaccaggg aggggtattt ggcc 284

<210> 3985

<211> 282

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558837H1

<400> 3985

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cgccaaacag ttccctacca atgtgactga tggatctgtc acaccctagt cacttcaagt 180
cttctaaagg tgggtctcaa aggatggcat tggagctgtt ggacgcttat tcattgggtgg 240
gagatttggga agcctttttg atgatgatcc caagcatgga ga 282

<210> 3986
<211> 287
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700558838H1

<400> 3986

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ttttcaatca ctccccacct ttggaattca aggtttgagc aaggaggagg aagactcatt 180
gctagggcaa gtggaaatat ggaggtacat gacatgcttc acggactccg tggccttgaa 240
agctgtcata gagcttcgta tagcggacat actagaccgt tatggta 287

<210> 3987
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<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700558839H1

<400> 3987

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tttaatnngt gctttaaatt cactagcgtg tcaggaactt atattggttg gtttttggca 180
atgaagtgta tcataatcta ctggt 205

<210> 3988
<211> 286
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700558842H1

<400> 3988

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ttgccggaga gtctcaccag aatccggtgc cggaaacctc tctccgtccg atgctccggc 120
gattccactt ccggtctctgt gggttcggag tcgatccgaa ggtgtttcgg aagaacctta 180
ctcggagtaa gaattataac cgcaaaggat ttgggtacaa ggaanagacc ctccaatgca 240

tgaatcgca gtacaccagt gatattcatta agactttgaa gaaang

286

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<213> Glycine max

<223> Clone ID: 700558843H1

<400> 3989

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ctttagcaaa nctcaactca gacgctctca ctagcactac caacttcaac caccatttca 180
ttgctcgctc tcttcgcccc tccaaacgaa gccaaagccg ctgtcagcat cgccaaggac 240
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<210> 3990

<211> 172

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558847H1

<400> 3990

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<210> 3991

<211> 172

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558848H1

<400> 3991

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tcctctgcgc cttctctccc cgcgctcgc caagcacctn tactctccg tc 172

<210> 3992
 <211> 283
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700558849H1

 <400> 3992

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 atttacagtc agtggggaaa gaaattcaga tggatgaacta gctgatgcaa caaacatgag 180
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<210> 3993
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 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700558850H1

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 ttcatcaatc ctgaggaaga gcagcatgtg ctatcatcat gg 282

<210> 3994
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 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700558851H1

 <400> 3994

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<210> 3995
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700558853H1
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 aactaccctc catgccccaa cccagagctg gtgaagggtc ttcgtcccca cactgatgcc 240
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<210> 3996
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700558854H1
 <400> 3996

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 tttgacacta aacaagtgct atcaagtgga ggagaaggca tgtgggggggt tctggagtta 180
 ggtgcatggc tgtgggggaa gcagcaacca ctgggacaaa gaagagaagt ggatatgagc 240
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<210> 3997
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 <223> Clone ID: 700558855H1

<400> 3997

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gggtgtgtttt atncatnagn naagatngga atgcaagttt nantgatnaa tactnataat 240
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<210> 3998

<211> 284

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558856H1

<400> 3998

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ctgctataaa tcctcgtttc tccaattata cagttgaaca atttaagcgc cttcttgagg 240
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<210> 3999

<211> 284

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558858H1

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agggtgctg atttgtgatt cggatctaag ttcacagctc aagtcagcag cttattctgc 240
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<210> 4000
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 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700558859H1

<400> 4000

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 gaataccctg cagaactggg ggtggtacta gtcgcattgc attaacatct atactatctg 180
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<210> 4001
 <211> 280
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700558860H1

<400> 4001

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 atcacattgt cactgattgg gaccaacctc gcattcttcc ccgcgcacgc caagatatga 240
 aaaatttgct cctcattgag ccaagtttgt ataagtgtg 280

<210> 4002
 <211> 285
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700558861H1

<400> 4002

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 cctgcgcagg acatgatacg cttggtggca tgcgttaacc ttgattgact ctttagacac 180

tttggcttta cttggtgacc gccaacgatt ctctgcttcc gttgaatgga ttggtaaaaa 240
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<210> 4003

<211> 287

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558862H1

<400> 4003

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tattgacaag cgtgtgattg agaggttcga gaaggangct gccgagatga acaagaggtc 240
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<210> 4004

<211> 285

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558863H1

<400> 4004

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ttggtcagca tgtctttttc actgtgggga ctattccctt gctggaaaat ctgactgatc 180
atattttcca agtggttcctt ttgatctttt atccagtttg catgctatct gtttgcaaga 240
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<210> 4005

<211> 280

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558865H1

<400> 4005

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 accaataata nactntcaaa ctctgtcact tganacgaaa aatgcatcac tctggaatgg 180
 ggattaggtg ctccataaata gagtatttca taataacact agtgattggg atcttgagat 240
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<210> 4006
 <211> 278
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700558867H1
 <400> 4006

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 atggtaacaa ctgcatttag tggcccacca acttccatag antggatttt tnggtattgg 180
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 tgggttcttc tagganttat gttagcagta ggatagta 278

<210> 4007
 <211> 280
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700558868H1
 <400> 4007

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 agtgtttatt agtccaaact attaaggacc ctaagttaga taacagggtga atttataaga 180
 aaagtttgaa gagaatagta taaagccgct ggcacctgag actcaatttc aaacgctgtg 240
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<210> 4008
 <211> 275

<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700558869H1

<400> 4008

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tactcgctt cccacantgt ctaaagcnag ccgatganc gtttcgatcc gagtcaantc 180
gcctcgctcc gattctncac acagctggac cntccattc actccctcgg gtttctctac 240
atcctagaag cttccatgac cgtccgggt accaa 275

<210> 4009
<211> 284
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700558870H1

<400> 4009

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tgttggcgaa ccgaagagga ggacaaccgn tgaacgccga gcaccattc gcgagcanca 180
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ttcaagtcca acctccgcag agccatgctg cagcceaact cgac 284

<210> 4010
<211> 283
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700558871H1

<400> 4010

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aagagggtaa cacgtggaca atgccaccgt ctggggcggt gagcagcgaa accgccgccg 180
tcttcgngc tcttactctc tgttgetcac ctccacctcc ctntcgtac tcttctcgt 240

actcgtgctg gtgtttctgc tcatcgtggt tccgacgtgc att 283

<210> 4011
<211> 284
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700558872H1

<400> 4011

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ccatgtttctc tatgttttggc ttctttgtca ggccattgtc accggaaagg gtccattgga 180
gaacctcgcc gatcaccttg ctgaccctgt caacaacaac gcctgggcct atgccaccaa 240
cttcgtcccc ggaaagtgag cgtcaaagaa cgaaatgact ttg 284

<210> 4012
<211> 284
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700558873H1

<400> 4012

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gcacatgcag ctatcacgtg cgggcaggta cgaatagcct gatcaattgc atcggttacc 180
tccagaacgg aggaacgccg ccgtcgggat gctgcaacgg agtgaatcgc ctcaatgccg 240
ccgccaagac caccgccgac cgccagacgg cgtgcaatgc ctca 284

<210> 4013
<211> 283
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700558874H1

<400> 4013

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tgatgcttgt nnetcactgt gttgagcaag ataataatga taataataga aagagcagta 120
 ataagagagg taggaattcg aggaataatt caaggggtgct gcgaagaaat gggaggagaa 180
 tcaacggagg tggaagtgtg agtgggatag ggaaagattg gagcttgatc ggagattgaa 240
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<210> 4014
 <211> 285
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700558875H1
 <400> 4014

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 catctgctga tccaagggat aatttgggtcc atttgctccc ctccaatttg agtcaccagt 180
 tgcncagctt ttggaacaaa tctcaaatac ccatccgcat ctactaccag caggccattg 240
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<210> 4015
 <211> 275
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700558876H1
 <400> 4015

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 gctccatttt gctgctcttg aattagcttt cgtggctgcg gaggaccctt atagattctt 180
 cgactggacc attacctatg gtgacattta tcccctagga gttanacaac aggggtattct 240
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<210> 4016
 <211> 285
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700558877H1

<400> 4016

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 ttagcttcaa aggggtgtcaa agccacagtg ccaccacca ctacactgcc aactccatca 180
 atgcacccaa catcacgggc gaagccatct ccgatgggtt cgaccaagcc ggcttcgccc 240
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<210> 4017

<211> 286

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558878H1

<400> 4017

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 cttcaccaat taccacatgc ttttggtggg aacactccca ttctcatggt gaccatggag 180
 atcatgacca tcatgatagt tctggacatg atcatgcaca tnccttagcc gatctttcca 240
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<210> 4018

<211> 288

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558879H1

<400> 4018

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 ctttacaaga ttttctaggg gtaaagtcaa ggctatatct ctgaatttgg tcttacatcc 180
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 aatgtgccaa actcttctag ttcttcaggt ttcgaccag caagtgtt 288

<210> 4019
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700558881H1
 <400> 4019
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 cggaagacc attcaccctt gaggtggaaa gctctgacac catcgacaac gtcaaggcca 120
 agatccagga caaggaagga attccccgga tcagcaacgt ctcatcttcg ccggaagca 180
 gctcgaggac ggccgtaccc tcgccgacta caacatccag aaggagtcaa cccttcacct 240
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<210> 4020
 <211> 278
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700558883H1
 <400> 4020
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 atgtaccaga agcaaacgca tactggaatg ttgagacggg tgagggtggtt ttaaatgatt 120
 ctattgacat atgcatagca gttccactga gaagggttg atgactccaa taataaaaaa 180
 tgctgatcag aagacaatat ctgctatctc ctgagaggtc aaggaaactag ctgcaaaggc 240
 acgtgctggc aaattgaagc cacatgaatt ccaagggg 278

<210> 4021
 <211> 278
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700558884H1
 <400> 4021
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Sequence 70055885H1

aggcccttct gtcttcgcaa ccgtagcann nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180
nnnnnnnnnn nntcattca agacaggcct gtctttgctg cccctgcccc catcatcacc 240
ccaactgtga gagaggatat ggcaaaggaa tngagcaa 278

<210> 4022
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<212> nucleic acid
<213> Glycine max

<223> Clone ID: 70055885H1

<400> 4022

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taagaagaaa ataagttcat atacatgtat atttttcaca ttttgggccc aatctttgag 180
atttatacta ttaagttaat gccattaag tttacgactt ttgctttaaa actcgttgaa 240
gatcagtttt cttctgggag atgcaaattg tacaagagt 279

<210> 4023
<211> 280
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 70055886H1

<400> 4023

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gnccaccctt ttgtgccaga ggttgtaaag cagtggatgc cttgcattca gagttccggg 180
ctgtggataa tttggttgcg tgcaatacca cccgtgtcct taaagctttc cagaatgctc 240
gagttggatc tcatcacttt ggtggttcca ctggtatggt 280

<210> 4024
<211> 282
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 70055887H1

<400> 4024
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 aacgtcaagg ccaagatcca ggacaagaag gaatcccccc ggaccagcaa cgtctcattt 180
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<210> 4025
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700558888H1

<400> 4025
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 tgattctcat ccaccataa atcttgaact gaattgagta catttcatta tgaattttcc 180
 tctggctcag aggaacatgt ggattgtgct gtgtgtctaa gcaaatttgg agaaggagat 240
 gaggtgatta gagttatgag atgtgagcat gtctccacaa a 281

<210> 4026
 <211> 280
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700558889H1

<400> 4026
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 tggagaacct gggcatcttc atctctacaa ggacctgagc caaatgatcc agaggatcga 180
 cgtcaacggc gacggttgcg tggacatgga cgagtttggg gagctgtatc agaccataat 240
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<210> 4027
 <211> 281
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700558890H1

<400> 4027

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 tcggcaatat gactctaaga tgaataattg ctttcgctg atggacaaga atttttcact 180
 tcatatgatg aagtctatga tagttttgat gcaatgggcc ttcaagaaaa tcttctcaga 240
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<210> 4028
 <211> 280
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700558892H1

<400> 4028

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 aatttcattc agatcatggg cttcgctcc tactatactt ggtgttagag aacatgtctt 180
 cactggcant gtctcatctt tagcatcatt tatgtccaat caagaaacta gttttgtgac 240
 ttnggggcag cgagtttttag caaatccatt gaagtcgca 280

<210> 4029
 <211> 281
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700558895H1

<400> 4029

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 ggtggtgtca agaatgcttc gcacctctta aatatgattc catgctggga acttttaaag 180

cagatgtgaa aatactggac aatgaaacca tcaactgttga tggtaagccc atcaagggtg 240
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<210> 4030
 <211> 282
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700558896H1

<400> 4030

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 ctgtagatat gccacttgac agcgagtctt tgctattcct cctgggtata atgcccccca 180
 gcaggttcat ataacgcaag gtgacctagt ggggaaagca gtgatcgtgt catgggtgac 240
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<210> 4031
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 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700558901H1

<400> 4031

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 cnttggtcgg aattccctcc tgnccggtc atcacacttc tttctctggt cactccctca 120
 gattcacct ctctagctag ttccaacaa caaactc 157

<210> 4032
 <211> 232
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700558903H1

<400> 4032

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ccaaaaacag caacacagtt tgtgtgaaga gtcattatc ccctacggtt acccctgctc 180
cgagcatacg attcaaacga aggatgggtt cttgttaggt cttcaacgtg tc 232

<210> 4033
<211> 295
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700558904H1

<400> 4033

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aaaaaagaag aaagaaaaaa gaaaagcact aaaaaaaaat gaagaagggt ttctcccttg 120
tgctgctgat tcttctgata cagtacaaca acgttggtcaa cgcctacaac aacaaaaact 180
gtgtcacaga ggattgcctc atcggcaaca aggatttggg atcagagtgc tactttggat 240
cccatgtggc cagaatgctc tacgatgtga gccaatctgt gagtggcaaa acagg 295

<210> 4034
<211> 296
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700558905H1

<400> 4034

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tgacttaag tgcccatnca ttgaagtgc tgttggtgat atctctaaat nccggcattg 180
cagcctggaa cagtgaccag cttctatct atgaacctgg ccttgatggt gttgtgaagc 240
aatgccgtgg caagancctc ttcttcagca ctgatgttga aaagcntgtc ttgagg 296

<210> 4035
<211> 289
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700558908H1

<400> 4035

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 gtggagggtt caggattttc gatgatgaga tgctgccgga aaatggaata cgatcttctg 120
 cttcccttca ggccagggat catattgcgc actatttgtt gcaccatggg agggctggga 180
 ctggcttttt ctagtctcta ggttctcttt cgggttttct gcattnttta gaactttact 240
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<210> 4036
 <211> 294
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700558911H1
 <400> 4036

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 agtgaaatac ttgggaccct tctcagctca gacccttca tacttgaaag gagaattccc 240
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<210> 4037
 <211> 293
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700558912H1
 <400> 4037

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 cccctccccg cagagttcac ttccggcggc gacactctct ccgttgaccc cgcgctcacn 240
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<210> 4038
 <211> 296

<212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700558913H1

<400> 4038

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 ctttcctca ttggcacttt gccaaagccat tgacttgagg catttgagg agaatttgaa 120
 gaacacggtg aagaacggtg tgagccaagt tgctaagcgg actctcacca cagggtgtcaa 180
 tggagagctt cacccttcaa ggttttgtga gaaggacttg ctcaagggtg ttgataggga 240
 gtacacattt gcatacattg atgaccctg cagtgggcac atacccttga tgcaaa 296

<210> 4039
 <211> 176
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700558915H1

<400> 4039

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 ttttagcatc ttgatatagg ccttgatatta gggagacttt tgattttctc tagatgtggg 120
 gtatgccccg tttattattg tatcattttg gatttaatat aattttcatt tttnc 176

<210> 4040
 <211> 297
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700558916H1

<400> 4040

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 cccagctgt taccactgtc aaccgtgccg gtgccggcat ggttgctcca ttcactggcc 120
 tcaagtccat ggctggcttc ccaccagaa agaccaacaa tgacattacc tccattgcta 180
 gcaacggtgg aagagtgcaa tgcattgcagg tgtggccacc agttggcaag aagaagtttg 240
 agactctttc ctacctgcca gaccttgatg atgcacaatt ggcaaaggaa gtagaat 297

<210> 4041
 <211> 292
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700558917H1

 <400> 4041

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 cctgcagaag caacttactt tgatggggca gtgaagcaag gagagaatcc aatggtaccc 120
 tttctccaga ggagtccatt cctagcatga ccatagacaa gctccgatca caactggatg 180
 atgctatagc tagtgaatgc ccattttgtg gcgacttgat gatccgtgag atttctttgc 240
 ctttcatcaa tcctgaggaa gagcagcatg tgctatcatc atgggagata aa 292

<210> 4042
 <211> 288
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700558920H1

 <400> 4042

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 gttgctgcat ctgtaagaat tatctatgga ggttctgtaa atggaggaaa ctgcaaagaa 180
 ttggccgcac agcccgatgt tgatggattt ttggttggtg gtgcctccct ggaagccgga 240
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<210> 4043
 <211> 292
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700558921H1

 <400> 4043

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 ggccttcagt gcaacctcca aggctggcag attcccttat tctcttggac aagaacctac 180

tttaccagga aatgccgagt ttttgctcca gtgtatggag gaggcaggag tagatggtgc 240
actcattgtg cagccaatta atcataaatt tggatcatag ttatgtcaca ag 292

<210> 4044
<211> 293
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700558923H1

<400> 4044

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gcaattaaca gacttttnatt tttgtgtaat tgtnaacggg ctaagaanaa aaaagttaaa 180
gntgtatcaa gtaaaagana aanaaaagta gangtaaaat taaatgtata caaattgttt 240
catgttgtat gaaaaccgat ttcgtangcc atgatntnna ggtaatagtt aaa 293

<210> 4045
<211> 292
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700558924H1

<400> 4045

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catactatca gatgcacatg gaactagagt ggcaaggaca catatgcacg actggttgat 120
tcttttgctt cttgtgatca tcgatgctgt cttgaattta atacagccat ttcaccgttt 180
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ttgggctggt ccgataatag catattgtta ccactggctg tttttctcgt tt 292

<210> 4046
<211> 293
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700558925H1

<400> 4046

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aggcaagggtg cccggtttcgc caaatggcgt actgttggtga gcatcccca cggtcctct 120
gctctggcag tgaaggaagc tgcctgggggt ctagctcgct atnctgcaat ttcacaggag 180
aacgggttgg tccaattgt ggagccagag atcttgcttg atggtgaaca tgggattgac 240
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<210> 4047

<211> 293

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558926H1

<400> 4047

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cttcaagaat gcttctgaaa tgaagccggt gaatacaggt ttgaaagcag gggaggcagg 180
ttatgatcca ttttcaagga gatggactag atcaaggaat tactatgctg cnaaacctgg 240
tgaagaagct gctgctggtg ctgggaagtt ggtggataca agtgctcctg tgg 293

<210> 4048

<211> 291

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558927H1

<400> 4048

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ctggctcggca aacggacggc gggcgacgc gtcgcttcta gcccgattc tgacttagag 180
gcgttcagtc ataatccaac gcacggtagc ttcgcgccac tggcttttca accaagcgcg 240
atgaccaatt gtgcgaatca acggttcctc tcgtactagg ttgaattact a 291

<210> 4049

<211> 282

<212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700558928H1

 <400> 4049

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 acccgcaagg atcgtaccat tacggtatga taaacacgac aaagacgac atattggcga 120
 gttcggctgg tcaagtaa at ggaagcaaa gatacgcaat taacagcgtg tcttatgttg 180
 cccagacac cctcttaag ctgcccatt acttcaaaat ctccggtgtt ttccgccccg 240
 gaagcatatc tgacagaccc actggtggcg gcatttacct tg 282

<210> 4050
 <211> 292
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700558932H1

 <400> 4050

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 tttaagcaaa aatacaaact tataaactga agatattgca gccccatctc ccatctccct 180
 tttgtactgt tctggccttg caggctgtat aagttatctg acagattgtg caatcattgt 240
 aaacatgtat gctgacatac tttagtgaat cacataaagc aatatgggtt tg 292

<210> 4051
 <211> 149
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700558933H1

 <400> 4051

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<210> 4052
 <211> 288
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700558934H1

 <400> 4052

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 tctatgatca gtctcgagcg gataacaaag atgtctggaa gtttgttctt gggaagcata 180
 atcttacatc acccatctct tcttattatc gagcagaagt tgttacaaaa tcacagtcac 240
 acttttttac ccattctgtg aaagcaatag aggtgacttc gacggcca 288

<210> 4053
 <211> 288
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700558936H1

 <400> 4053

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 aagttcctag ctctaataaa tcaatgantg aaaaatgtgc catagaaatg catagtcaac 180
 tttgtgatgg ggctgatcct gaaattgaag atntaagaac aactctagat ccaccaactg 240
 agcaagatga ttctaataca atcnctctgg caattgatga tcttttgg 288

<210> 4054
 <211> 287
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700558937H1

 <400> 4054

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 ggaataggat aatgattagt gaaaaaagaa aaggctaagc gataattatt ttgggtaaaa 120
 gaccaaatgc actagcctat gctttctaca catgttgagg ttgtgtaatt tgtaatgtac 180

gtaggtcaat gcctctatga atattgacta ttaaaacctg ttttaatttcc actgcagcca 240
ctgccataag tcccaaacaa tgcttcaaac cctaccaaca ctgcagc 287

<210> 4055
<211> 294
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700558939H1

<400> 4055

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ncatgccaaag ngcttgcaca ntcttnccca acccaatgcg cctcaaagag acttgagggtg 120
acagaattct ctgggctaag atccacttca tgtgtgacat atgctaacga tgctagagaa 180
tctncctttt ttgntcttgt agcttcccaa ctcaactcca agancaatgg atcatcaact 240
cctgtgaggg gaganacagt ggccaagttg aangtggcaa tcaatggttt cgga 294

<210> 4056
<211> 277
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700558940H1

<400> 4056

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gnnaagctct gcgaccaaatt ctccgatgct gtcctcgacg cttgcctcga gcaggaccca 180
gacagnaaag ttgcntgcga aacatncacc aaaaccaatt ggtcatggtc ttcggagaaa 240
tcacgaccaa ggccaacggt gatacgagaa gatatgc 277

<210> 4057
<211> 287
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700558943H1

<400> 4057

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 aacacaaaca ctctgcattt cgtgcatctc ataggggaag gggagttgaa atatctagtc 180
 cgaaggaagt gaaggcaacc aatcatgga gcaaacaatga tcctgtgcct agtgetgaag 240
 ttaaaaaagt tcgggaatcc ctaaaatcaa gttctttgga gttacga 287

<210> 4058

<211> 232

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558944H1

<400> 4058

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 tccccaggtt cttaaaatgt atatgacttc ttcttcccta atccctatga tcccatccct 120
 cgtgcttacc tttgtgattt atgtgtagat tatatgatca caataattgt tggattagt 180
 tacttcttaa ggactaaggt tcaatttaaa cctcggatgt ctcttgtttg tt 232

<210> 4059

<211> 290

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558945H1

<400> 4059

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 tttgaaggng atccaatcca aatggcatcg aatgccaatc acctgaaatt ccgccagatc 120
 tctccctctt acacgctctt gataaaccga aacgaancaa tagctatagc atcanacaca 180
 cacaccaccg ctaggggttag ggtaggggtt ggggggtgttc cgaagtaaca acaatggcgg 240
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<210> 4060

<211> 293

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558946H1

<400> 4060

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gntcaganag tgaaaangna tagtaagggt ataanggaan aagaaagaca agaacaagat 120
ggaggcagaa cttaatttct tactaagaaa ttttttgatt ntacatttaa attggaataa 180
tttcttaggt canagaatat ttaacaatgt caaagtatat tgtctcctga ttagattaga 240
aaatttaaga gaaattacaa tagcctctat tcanagagga gaactagggtc tag 293

<210> 4061

<211> 296

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558947H1

<400> 4061

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agagtggcca ttctgtagtt tatttctgnt caccaaggct tatcacatca caatttgtgc 120
attgcctcgt ggtccttttt cttctttgct tgccaaaaat cttacacaca caggnatcta 180
tccaaatggg ttctcaccag caagaaccat ggctattgga gaatgggaaa ccgaggggtg 240
tgaccaagga gaataggcat gggccgttct gcaacagnca tgcctccaa cgtntt 296

<210> 4062

<211> 291

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558948H1

<400> 4062

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gggctagcct caagggtgca tttttggctg cagtgtcttg catggttggt gtgagtgcac 120
ccatggcaca tgcagctatc acgtgcgggc aggtgacgaa tagcctgatc aattgcatcg 180
gttacctcca gaacggagga acgccgccgt cgggatgctg caacggagtg aagagcctca 240
atgccgccgc caagaccacc gccgaccgcc agacggcgtg caattgcctc a 291

<210> 4063
 <211> 285
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700558950H1

 <400> 4063

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 gataagtcta ggtgacataa ttaagttctc tttgtcacct tcaaaaacca aggatagcct 120
 gtcaaccaac gtgtctgggg tgccccttga tgatagaaat ttgattatta aggcgcttaa 180
 tctttacagg aagaagactg gcagtgacaa gtacttttgg attcatcttg ataaacgggt 240
 gcctactggg gcagggcttg gcggtggaag tagcaacgct gcaac 285

<210> 4064
 <211> 288
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700558952H1

 <400> 4064

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 anatatggan cacgctctca aangcagtga gttgattttt ggtaacagag ttcaattgaa 120
 atttgaaaca tggattgggt tcgaggagac gccctcgggc naggaanctt cgctaccgtt 180
 agtttagcga ttccgactac aaatccgaat cagttncgt ctctaaccgc cgtaaagtcc 240
 gcggaggctc aaacctcgtg ctggctaaga aacgagaaac acgtgctg 288

<210> 4065
 <211> 288
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700558953H1

 <400> 4065

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cccattctgg cttctatgtc cccggttctg gagaacttga tagatcgccc acgtaagcat 180
 cggagctccg agagantaat ccaaataccac ggcgtcccct ggcgacgctg tcaccgcctt 240
 cgtccgattc ctctactcct ccagggtgtac ggaggaagag nttgacca 288

<210> 4066
 <211> 279
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700558954H1
 <400> 4066

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 gggtgataag gatgttcaaa ctgctatcaa gtgcttgaag ctttgaaagg gttgtcatga 180
 acttgtgtgg agctgtggat tggctgctga ctgagcttta ttttcatact tatgagacat 240
 aattaatata atttatcntt agaccaagtt aaatnatca 279

<210> 4067
 <211> 180
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700558957H1
 <400> 4067

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 aagttgtgga acatgtcctt catgtttctg attgtaatat atattgccac aacattaatg 120
 tgaattgttg gtttttcttc ttgtacattc aaattatctt attttaagtt atgaattctc 180

<210> 4068
 <211> 286
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700558958H1
 <400> 4068

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cagatgcgca atcaggtctg ctccatcacc aactacacct gccaccttca agaccgtcgc 120
acttttctcc aagaagaagc cagctccacc tccaaagaaa aagcctgccg ctgtatcccc 180
cgccaatgag gaactcgcca agtggatggt tcttgacaga aggatcttct tgctgaggg 240
tctcttgga cgaatctgaga tccccgagta cttgaccgga gaagtg 286

<210> 4069
<211> 285
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700558959H1

<400> 4069

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tttctgttga gcatggccct ttcaaaccac gtgaaaatgg tcttttgaag antgaacata 120
gttggaacaa agaggcaaat atgttgactc tggaatcacc agctgggtgt ggtttctcct 180
actctgcaa taaatcttct tatgactttg tgaatgatga aatgacagca agggacaatc 240
ttgttttctc acagcgttgg ttactaaat tcccagagtt aaaaa 285

<210> 4070
<211> 160
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700558960H1

<400> 4070

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ccttttatca tgataacggg tagtggaaga tggattccgc cccaattacc aatgtcaaaa 120
agtccagagc atgaaaagga gtctggttcc acacannata 160

<210> 4071
<211> 290
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700558961H1

<400> 4071

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 ctcagatgcg caatcaggtc tgtccatca ccaactacac ctgccacctt caagaccgtc 120
 gcacttttct ccaagaagaa gccagctcca cctccaaaga aaaagcctgc cgctgtatcc 180
 cccgccaatg aggaactcgc caagtggat ggtcctgaca gaaggatctt cttgcctgag 240
 ggtctcttgg accgatctga gatccccgag tacttgaccg gagaagtgcc 290

<210> 4072
 <211> 286
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700558963H1
 <400> 4072

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 gtggaagcag cattttcttg aatgccattc ttttggacga tccacattac cttttgttgt 120
 agtcgcgtta ttattacctg atgaaaattt agaggctcta ttgtggacga aataagttat 180
 caattcaaca ataaaccaat ggaaatgaga aaatcccggtt ttggtggagg gagtaggtga 240
 cgattttttt tottggacca ttgtagttgt tggtcagaga ctatag 286

<210> 4073
 <211> 222
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700558964H1
 <400> 4073

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 agctttaatg cattgcttct tttattgtcc tgtatatcaa aaatcattgg catcttatga 120
 tcttatttgt cactgtgtta tggcatcaa attcatcagc agcagggtta ttgtattgta 180
 tatggataaa gagaaatgct agtaacatgc acattccctc ct 222

<210> 4074
 <211> 244
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700558966H1

<400> 4074

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gttatacgaa gagtgtgaaa ctccagaaag ggaatttgtg gtcggtattt agctgtatgg 180
gtttaaattt gctttagaaa aatgtttaga gaactttaaa aaaaanaaaa aaagagaaga 240
agag 244

<210> 4075

<211> 282

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558967H1

<400> 4075

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tctngcttgc ntaaccnnga tctgcagana atntgcgaag aactgggctg ttacatttgt 180
tatgccttgt cattgcgtta gtaagtgtgc aagcagagga ngcgataag tattacacat 240
ggacgtgact tatggtaant atntctccat tgggtngtct cc 282

<210> 4076

<211> 285

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558968H1

<400> 4076

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nnncccanac ccacacgtga nccnatcctc cccanaccgt cactcctcgt aacgggtgcgc 120
gcggaagtga aanaganctc cgcacccgcn gccgccacat cctccnacgn aaagatccgc 180
gnaatcctcc gcaaccgtga ctacgacaag aaattcgggt tcagcgtgga gatcgagtnc 240
ttgacgntcc naaaanggct ctcaaaagaa anattngtct gatct 285

<210> 4077
 <211> 283
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700558970H1

<400> 4077

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 ggttgtcaaa gccgccaccg ttgttgcccc caaatacacc gcgattaagc ctctgggaga 240
 cagagtgtctg ataaaaataa ggaagcagag gagaaaatga ggg 283

<210> 4078
 <211> 285
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700558971H1

<400> 4078

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 aatggngtaa atggangtgg tatatttgct attgngcatg ttgtgcaanc taaagtgaac 120
 ntgactccat tattaccaga ccagccacac tacagtgtca atatgactgc agttcaagtt 180
 ggccatactt tccttagtct atcaacagat acatcagcac aaggagacag anaagggaca 240
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<210> 4079
 <211> 286
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700558972H1

<400> 4079

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aggaaccaat aatgaacaa gcagtagcaa atatgtatgc tgcaatgagg tctgagctca 180
 accaaattta ctccaaaata actgaactgg agatggaagt tagtgagcac acattggnta 240
 ccaatgccat tcaaccactt gaccaatcta gacgatgcta tcgtat 286

<210> 4080
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700558974H1
 <400> 4080

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 caagggcaag gttgaagatg agctttttca cccatccaaa tcttccaaga aaaacaacaa 180
 cctcaacaaa aaacatgggg 200

<210> 4081
 <211> 283
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700558975H1
 <400> 4081

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 ttatttcaat gcaccaggaa gaaaccatct ctttgttcca gggccgggta acattccgga 180
 ccagatcatc cgggccatga acagaaacaa tgaggactac cgttctccag caattccagc 240
 tatgacaaaa atttgcttga ggatgtcaag aagattttca aga 283

<210> 4082
 <211> 284
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700558976H1
 <400> 4082

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 aactcatagc acttgaaaca tcaaaacaga caaatgctcc actggaggaa gtgcgcaaga 180
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 attttaagaa gccctgggct catgagcatg aacctgttag aaat 284

<210> 4083
 <211> 284
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700558979H1

<400> 4083

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 aaaattttga atgggaagaa ggaagggttt ggttgcaaga ttgaaacgca ggggaatcaa 240
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<210> 4084
 <211> 287
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700558980H1

<400> 4084

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 ttgtattggc ctcttccatc gcagcctctg ctggcaactt ctaccaggat tttgacgtaa 180
 cttggggaga tggctcgtgc aagatactca acaacggcga tcttctcact ctttcccttg 240
 acaaagcctc tggctcgggg tttcagtcca aaaacgagta tctcttt 287

<210> 4085
 <211> 282

<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700558981H1

<400> 4085

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gaaattccag agtttccac caaaaggaga agaaagccta tcatccgtat tgggaggaag 120
gaattcatcg atgctgatga aagtgccta ccagataaaa tctcagaggg tcctttaaaa 180
ccattactag ctgaaatata tgattcagaa atagtagctc cattagacaa tgaagtagcc 240
cctcttgccg aggaaactct ccaagcatgg gaacggatga gg 282

<210> 4086
<211> 279
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700558982H1

<400> 4086

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tcgctccaat tccgccgcgc ccagattctt ctctctcacc taaaaacccg gtcncaacaa 180
ggcttttcct tccnactcct atggcggnag aaacatcttg gatcagccat atgatgacag 240
acaaagggag actggggcgt ttgattcatt ttagaattg 279

<210> 4087
<211> 284
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700558983H1

<400> 4087

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attttgaagg ttcattataa tggcggaaga gataaccaag aacgacgtcg gagtaacctc 120
caaaaccacc agaagcagct ccaggttctg gcctcggttg attcccactt ccaccgatca 180
catcatcnct gccgagaagc gccttctttc cgctcgtaag actggttatg gttcaagagc 240

atgttaacat tggctctggt cctcctgggc tccaaagtga ggtg

284

<210> 4088

<211> 284

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558985H1

<400> 4088

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caaatagagc atccttactg ctcaagcatg gctcatggaa aataaacaac tagaacaaaa 120
ggttgcaaaa ctgagcctgc agactggctt tacgtctgag tatacacgaa tgatgataca 180
tgagactgat catctaaaga aagtcaagga atcatctgga ccgaaagaag cgtcaaaaaa 240
gagcaatcct ctattcgagg caccctcca aggccagaga atga 284

<210> 4089

<211> 282

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558987H1

<400> 4089

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cntagttttg gaaaccaaga attcctgaag aagggtagca tcaacaagca gttctgaaaa 120
tgagatcac caatgtcagt gagtatgagg ctattgcaaa gcagaagttg ccaaagatgg 180
cgtttgacta ctacgcatct ggtgcagagg accagtggac tctgcaagag aacagaaatg 240
ccttttccag aattttgttt cggncacgta ttcttattga tg 282

<210> 4090

<211> 212

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558988H1

<400> 4090

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cccgcacagt tgaaggcggg gttggctgag ttcattctcca ccttgatctt cgtgttcgcc 120
 gggttcaggtt ccggcatcgc ctacaacaag ctcaccgaca acggcgccgc cactcccgcc 180
 ggcctcatct ccgcttccat cgcccatgct tt 212

<210> 4091
 <211> 281
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700558991H1
 <400> 4091

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 nnnnnnnnnn ctattcaag acaggcctgt ctttgctgcc cctgccccca tcatcacccc 180
 aactgtgaga gaggatatgg caaaggaata cgagcaagct attgaagaac tccagaaatg 240
 ttgagggaga agagtgaact caaagccaca gctgctgaga a 281

<210> 4092
 <211> 280
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700558992H1
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 ggagtcaa at gtgcagcctg tcaacagtcc agtgacggtt tgtggtgata ttcattggta 180
 gtttcatgat ctaatgaaac tttccagac tgggggtcat gtgccggaga caattacatt 240
 tttatgggag actttgttga tcgggggttac aatagtcttg 280

<210> 4093
 <211> 280
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700558993H1

<400> 4093
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 agcaacagat gtcgccaatg ctgttttaga tggaagtgat gccattcttc tgggtgctga 120
 gactttacgt gggttgtacc ctattgagac tatacttact gttggcagaa tttgttcaga 180
 ggctgagaaa gttttcaatc aagaccttta ttttaaaagg acagtcaagt atgttggaga 240
 acccatgact cactggaatc tattgcatcc tctgcggtac 280

<210> 4094
 <211> 285
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700558995H1

<400> 4094
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 ggccgtgcaa tattgataat acattcagtt atttctagaa tttctttact tatacaattt 120
 atcgtttttag gtatctgaga atagttgaag agcttcaaag agtggaataa tcggattcgt 180
 ctagagaagn naagcttgcg ttctttatta atctttataa tatgatggcc atccatgcaa 240
 tcttagtanc aggccatcca gatggagcac tggaaagaag gaaat 285

<210> 4095
 <211> 283
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700558996H1

<400> 4095
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 ccgtggcaat attgataata cattcagtta tttctagaat ttctttactt atacaattta 120
 tcgttttagg tatctgagaa tagttgaaga gcttcaaaga gtggaaatat cggattcgtc 180
 tagagaagag aagcttgctg tctttattaa tctttataat atgatggcca tccatgcaat 240
 cttagtatgg gccatccaga tggagcactg gaaagaagga aat 283

<210> 4096
 <211> 283
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700559001H1

 <400> 4096

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 tnngtttctc attcnctttt tnatcatgga cgtcgaggty cggcagatct tcaacaagtt 120
 cgacaagaac ggcnacggaa aaatctcggg aacggagctg aaggacatgc tcgcggccct 180
 cggatccaaa acgacggacg aggagtngaa acgnatgatn gagganctcg nccanaacgg 240
 cgacgggtttc atnntntcna ngattcgngg atttnatgca atg 283

<210> 4097
 <211> 280
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700559003H1

 <400> 4097

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 atgctatctt agatcagggt nctaagattg tacaagttga tatacctcaa tccttggttg 120
 aggaacaagg aaggcagctt tatggagcca acctattaga aatacaggca aaaatgaaac 180
 taaatgagca gcagctggcg actctgtcaa gttcaaaggc tgtgaacgaa ttncttgagc 240
 atcagangga aaatataaca atttgataaa cagagtcctgg 280

<210> 4098
 <211> 276
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700559010H1

 <400> 4098

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 nnataanaga gaantgtggc cctacctatt tgaattcagg nacaatttat tgacaacttt 120
 agatttgata cctgtgtnag ttgtttnaat gaagtttact aactggngtc tgtttctcaa 180

Sequence = GATTACA

atgttcccct attctcctca nagacnccat tctattgata cggtcacttc aaatatcaca 240
tctntgnatg ggcaactatn gattatgttc acaatg 276

<210> 4099
<211> 277
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559012H1

<400> 4099

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ccggccggtg ccggttcagg ttacgatccc gaaacccaaa gcggcgaggc cggaaggcgc 120
gaacatcggt ttgcagccgc ggttgtncac tctgagatcc tacggttcgg atcgagcggg 180
ggttctgatc aaggcccgcg aggaggggtga cgatgatgac gtgtccccct tcttcnccgc 240
tctttccgac tatattgaga gctctagaaa agtcatg 277

<210> 4100
<211> 278
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559013H1

<400> 4100

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ccccacacc caaagtcccc attctgcaa atttactcc ccaaagcccc aaccttgaaa 120
ctgaaactcc cgatttcaaa gcccagatg ctgtccctcc ttggagggat agcaccactg 180
gtcttgacca gaccctccct cgagaagaa attgagaaag cagcactcct tgacttcaac 240
ctcacccttc ccataataat ggtggagtgc tgctgctg 278

<210> 4101
<211> 277
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559014H1

<400> 4101

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 tggcggttgac ttttgTTTTT tgctgtgtag agagtaaggc aatggancaa cgaccaccgc 120
 aagcngtcga atcgtngtcn gtctccgacc ctgcagatcc cccaatcatc caatcccagt 180
 ccaactcatc ttttgantgc cggaagagaa attcnaaatt gngngaagcn tcgganaaga 240
 atncttcagg aagangacct ccttaactct caccaaa 277

<210> 4102
 <211> 281
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559015H1
 <400> 4102

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 ccgccttttg cacagtgcac cgtcgccatt tccctcgccg ctgagcgcct ctttcattat 120
 ggcggaagt ttctcaaagc caaggaccag aagccgctct acgaagctct ccagaagatc 180
 aaagaagagc tgatgctttt ggggttcatt tccctgcttt tgacggttac aaaaaacggc 240
 attaccaaaa tctgcgttcg accctctttg acgtccaca t 281

<210> 4103
 <211> 281
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559016H1
 <400> 4103

agaagaacaa gtagttgaga actaagaagg agaagcaa atgcttcctca atgatctctt 60
 cccagctgt taccactgtc aaccgtgccg gtgccggcat ggttgctcca ttactggcc 120
 tcaagtccat ggctggncct cccaccaga aagaccaaca atgacattac ctccattgct 180
 agcaacggtg gaagagtga atgcatgcag gtgtggccac cagttggcaa gaagaagttt 240
 gagactcttt cctacctgcc agaccttgat gtgcacantg g 281

<210> 4104
 <211> 285

<212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559017H1
 <400> 4104

ccgcactaga agaaaccttg cagattgtgc tgttggtgga gaagaactct ggtggaaggc 60
 attagacttt gcttctnctt aaacggagct ctgtttcatt cnttgatgtg gagaaacacg 120
 aaaccgccgt gtcacggtgg acaagagcaa agacaagagc agctaagggtt ggaaaagggtt 180
 tgtctaagga tgataaggca caaaaattgg cntatcaac attggctcga agctattgac 240
 ccacgtcatc gctattggna caatttgac atgattacga tactt 285

<210> 4105
 <211> 283
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559018H1
 <400> 4105

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 cgcagacttg atcaagaagg gaaagatgtg tgctctcttc atcaacgatc ttgatgcagg 120
 agctggtacg tcttggtgga accacccaat acactgtcaa caaccagatg gtgaatgcca 180
 ccctgcatga acattgctga taaccccacc aatgtgcagc ttcctggtat gtataacaag 240
 gaagagaatc cccgtgtgcc catcatcgtc acggtgaagat ttc 283

<210> 4106
 <211> 280
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559020H1
 <400> 4106

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 tgcgcaggac tcggtggcgc attactgtca tccacctcat ctgctctcac ctgagggttt 120
 gtgaaatccc cagtgtgtgc taggaatccc ttgaggcaag ctgtggcaat gggaaatggg 180
 aggattacat ggtaatttta gtacaagatt aataatttgt ctgattttga aattggaaaa 240

aataactgaa tgatgatgat gttgtatatatt gatatgatac 280

<210> 4107

<211> 282

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559022H1

<400> 4107

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 nttgcctccg gcggcgcggtg ggagtntctg tggcgcggtga tgcctagtgc cccgcntacc 120
 tatgcttcac ncgacccgca ttgtagagtt cacgccggag agacggcgga atctcaccgg 180
 acgatcgtga tttcgcanct tcatggcttc cgcctaccgg nacgaancta attggccang 240
 gcatagaagc ggtggngctg gattcagggg aaaagtacct tt 282

<210> 4108

<211> 278

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559023H1

<400> 4108

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 cggttggggg tggaggccaa cgccgaatca gcagcagcaa cgacgtcgta tggttccggt 120
 ggtgtgttcc atcgctatag agaacgcgaa gaacaaagag agagcgaaac tgaagaagct 180
 cttcgatgaa gcgtacgaga ggtgccgcac tgctcccacc gaagcgtttc cttcatctcc 240
 aacaattcac cgacgtcttc gacaagtacg acttcaac 278

<210> 4109

<211> 254

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559025H1

<400> 4109

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tggcccgtac aaagcaaact gtcgtaagt caactggagg aaaagctccc aggaagcagc 120
 ttgcaaccaa ggctgcacgt aagtctgcac caacaactgg tgggtgtgaag aagcctcatc 180
 gttatcgccc tggaactgtt gctcttcgtg agattaggaa ataccagaag agcactgagc 240
 tccaatcagg aagc 254

<210> 4110
 <211> 278
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559026H1
 <400> 4110

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 aggggaaatc agttaacact attgcctgct tcttttagca gggttggtgag tctagaggag 120
 cttgatttga gttcaaata gctttcagca cttcctgata ctataggggc gcttggttagg 180
 cttaaaatat tgaatgtgga aacaaatgat atagaggaac ttccacattc tgttggttagt 240
 tgttcttccc ttagggagct tcgcatngac tataaccg 278

<210> 4111
 <211> 278
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559027H1
 <400> 4111

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 caciaaccta aacaaccct tttgcctaaa gctccttcct tttctccaat ggcaacctgg 120
 gttttatcag aatgtggctt aaggcctctt ccaccagtgt ttccacgggc aacaagacct 180
 atttcgtgcc aaaaaccttc aaagtctaga tttttaagca caaacaaggg tgtgccagat 240
 ctgaatctcc aagcaagagg gttaacngct gtagtttt 278

<210> 4112
 <211> 281
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559028H1

<400> 4112

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ataccattga agatttaagg cgttcattgc aacctaaaga gagtgctatt gnaggcattg 120
caanaatcag ttgtagaaaa ggaacagatg ttggaanata tgaganggtt gcttcaggct 180
nctgangaaa aaaggcaagc ggcactagct ggagctactc agctgaaaca tcaaaagaat 240
atacagagtt tggagggtca acttaatgat gattgtctga c 281

<210> 4113
<211> 278
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559029H1

<400> 4113

cgntgccttt tcacgccact tgtgactntt ccattccnan cagaatcacc ttnnctatnn 60
ttttagncac tgctaaaact tgtanctttt cntttccccc cgnaaaaaat aaantaaat 120
aaaatccaac acatttanca gatttcacgc caccaacggt gtcttcgtaa cggatatagc 180
ataacctttt gatcattcgg tatgaaaatc caatntccaa cctcggatcc atcttttaca 240
ttcttcagat cataggatct aatattgttg cagttttg 278

<210> 4114
<211> 276
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559030H1

<400> 4114

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tttgtttcac ccatttgga gctacctttt tgtttcatca gatggagcag tgtgtgtgga 120
ttgtgcaact tctgttataa agatgttgca tttgatgttt gcatcagttt ccccagcttg 180
tagtattgag gaccatctaa agtatggaga ctatgttaag aatttgtcat tacaattctt 240
gaaccagaac aattccgtgc aggggatatt cctgat 276

<210> 4115
 <211> 278
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559032H1
 <400> 4115
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 agctctcacc acagccattc aggttgata caggcatatt gactgtgcta gtgcgtataa 180
 gaatcaagca gagattggtt ctgctcttaa gaagcttttt gatgatggtg tgggaagcg 240
 tgaggactta tggatcactt ccaaactcgg tgttcaga 278

<210> 4116
 <211> 280
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559034H1
 <400> 4116
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 caagaaggat cttgcatttg ttgggaatgg gctccaggaa ttaggatact attgtttcaa 180
 ctggaggaac agcttgacgc attggagagt gctggagtag ctgttactaa agttgaaaag 240
 ctactaagt tccctgaaat ncttgatggc gtgtcaaaac 280

<210> 4117
 <211> 282
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559035H1
 <400> 4117
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 gctttctgac ttcagtggaa ccagacttca aactcaactt cagttcaaga gaaagcaatg 120

ccatccaaaa ggggtctttct acgtctccgc atcgagcacc aagaaaatcc taataatggg 180
 aggcaccagg tttattgggtg tgttttttgtc taggctcctt gtcaaagagg gtcaccaggt 240
 gactttattc acaagaggta aagcgctgt cctcaacagt tg 282

<210> 4118
 <211> 280
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559036H1
 <400> 4118

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 cagttttctc tcttccantc attcnccac cacantccac ctcagggtcg tgnnattctt 180
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 gaacttagga ttgttccagg agagataccg ancatagact 280

<210> 4119
 <211> 277
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559037H1
 <400> 4119

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 tcatttcatt tcagagggat taattattgt tttattntta agtgtggagt gctgtgcagg 120
 tcaaggccct tttacttggt cgtccggttg ttcccatctt ctctctcgta ccaatcaa 180
 cacacttttg tgttgtggtg ggaaacccta aaccccgttt tcggtgagat cgagatcgat 240
 cgaacatgga tgaggagtac gatgtgatcg tgttggg 277

<210> 4120
 <211> 278
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559038H1

<400> 4120
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 taggtggaag tcctttatga agataatacc ggaagtaaag ccggacttgt ccaaagagcc 120
 gggtcagaat ctgctttcag ctttagcaga tctccaaagg cgagttgaca aggctgatgc 180
 aattgtgaag caaaaggaag acgaaaatac cgaattgagg gaacagctaa aacaatctga 240
 gaggaagagg atcgaatatg agacaaaatg aaatcaat 278

<210> 4121
 <211> 277
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559039H1

<400> 4121
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 ttatttaaagc aacatgnttt tntgcatgga caaaagggag agtggtccgg cgtgccagaa 120
 agggtaagga gttgaaatat tctggtggcg acatggagat agagattgcc atccccaccc 180
 acttccggtg cccggtaacc ttggacatga tgaaggaccc cgtgaccgtt tccacgggca 240
 taacctatga ccgcgacagn atcgagagtg gatcgag 277

<210> 4122
 <211> 276
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559040H1

<400> 4122
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 cagcacaatg tactgggatg acaagtatgg aacccaaagt gtgtccaatg aggtagttag 120
 tgaaatgaga gaattctcag caaggacaat cagaatttga cctcaaattc tttcttatta 180
 gatgatgatc tgagtctggt gtagcggaaac tggagaaatg gatagtcaat gcaacagagg 240
 agtatgcagg gacatcctgg catgactgaa ttatat 276

<210> 4123
 <211> 274
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559042H1

<400> 4123

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 ggtttggtgt caatgatatt gatgcgaact ctgagaaatg actatgcaaa gtatgctcgg 180
 gaagatgatg atttggaaag tctggagaga gatgttagtg aagnatctgg ctggaaactt 240
 gtgcatggtg atgtttntcg gccctcgca actt 274

<210> 4124
 <211> 277
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559044H1

<400> 4124

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 agaaagaaca agttcaacaa atgcatcaaa gacattaagg agttcaaaga nagcactaag 120
 gttgacaagg tgggtgtcct gtggacagcc aacacagaga ggtacagcaa cgtagttgtg 180
 ggactaaacg acaccatgga aaacctcttt gnttccttgg acaggaatga ggctgagatt 240
 tccccctcca ctttgtatgc nattgctgtg ttatgga 277

<210> 4125
 <211> 272
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559045H1

<400> 4125

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 ggctgctgg ccatgttcct tttggtctcc tcagaggtgg catccacgaa ttcaaaagag 120
 gtgacaaatg gagttgaaga tgccaaatat cctggtggag gctatggtgg gggttacca 180

ggcaatggcg gtggtggcta tcctggccgt ggtggtggct accctggtcg tgggtggggc 240
tatccaggtc gcggtgggtg taccctggtc gt 272

<210> 4126
<211> 273
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559046H1

<400> 4126

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gttggtatna aaatggaaag caaccatagc atgaggcaaa acaccatgga aacagagttt 120
gaggacttgc tgcnagtgat ggcagaaaag ctggatgtgg agtcctttgt ctctgaacta 180
tgtggagggtt tcaagcttct atcggacccg gaaactgggtt tgatcacgag cgagagtcta 240
aggacaaatt cagtcttctg ggatggaagg gat 273

<210> 4127
<211> 279
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559047H1

<400> 4127

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catggttttc caaacaagca ataatcncca tttcgtattg tttcccctaa tggctcaagg 120
ccacatcatc cccatgatgg acattgcaag actattggcg cggcgtgggtg tgattgttac 180
catattcact accccaaaga atgcatcacg tttcaattct gttctttctc gtgctgtttc 240
atcaggcctc caaatccggc tagttcaatc nactttcca 279

<210> 4128
<211> 280
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559048H1

<400> 4128

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 gaccanatag gtagtagant tctcataana agtcgcaaca aagaggtggc acactatgct 180
 ggaactgcgt ctccctacna ccttcccata ctcaatgaag atgaaagctg ggaactcttc 240
 acaaagaaga tttttcgagg tgaagaatnc cgtctgattt 280

<210> 4129
 <211> 277
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559051H1

<400> 4129

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 agaacggcga cggcaagatc tcgtgcgcgg antgaaggag atgatggcgg cgctgggatc 120
 caaaacgacg tcggacgagg tgaagcgcac gatggcggag tggaccggaa cggcgacggc 180
 tacattcatt tgaaggagtt cggcgagttc cactgcggcg gcggtggcga cgggagggag 240
 ctccgggagg cgttcgagct gtacgnctgg acaagaa 277

<210> 4130
 <211> 277
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559052H1

<400> 4130

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 ctccagaaag gcatgcgaga ctagcaaagg atgcattgaa ggctaagaag gggattaaac 120
 accttcaggt tctggttgaa atagcatgtg catcaactcc taaccatttg gtggctgtga 180
 ggcaggctta ctgctctctc tttgattgct cacttgagga ggacatcata gcctctgttg 240
 ctccagccct cagaaagctt ttagtggcct agtaagc 277

<210> 4131
 <211> 248

<212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559053H1
 <400> 4131
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 aagatncacg gaggcaccta tgggggtattc atgaagttgc taccaagagc aagaggaaaa 120
 gtgggacctn ctacaagctc gtgccaagga gagttcccgg agcaggcatg acttgnccctc 180
 tantnagcat gngcctttgtc atacagtgga agctgctatg atgncacatg gccaatgacc 240
 catggatc 248

<210> 4132
 <211> 276
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559054H1
 <400> 4132
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 gatcttgaga taggaccoga agtccaaaag atcttcaact gtgtgggtcga aatagggaaa 120
 ggaagcaagg tgaaatatga acttgacaaa agaactggac ttattatggt tgatcgata 180
 ctttactcat cagttgttta tcttcacaac tatgggttta ttccacgtac tatttgtgag 240
 gacggtgatc ccatggatgt cttggtatta tgcagg 276

<210> 4133
 <211> 269
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559055H1
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 gtctcattgt tgnatttnnc attttcagct ttcaccacaa ccctttgnan ctctgcatcc 120
 tntaatgggt ctctccacaa catttatacn cccttcatcc ccaanattga acctttactc 180
 cnaaattcga agancctttt ancctcactn tgtcagattn cttaaccccc taaagattcg 240

ggcttcaact actctggnta tttnaacgt

269

<210> 4134

<211> 269

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559057H1

<400> 4134

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tttggttaat gttnttggtc aattagtngt tatgactgnt tgggctntna ttaaaccctt 120

atgaatactg tttcgctttg gattacttat tatnctttcg ctttaaantnt atngtnagtt 180

tggttttaaaa aaaaacnnaa aaaaaancng gnnngcccng gncnagtgc nngacnnc 240

cgggannnaa ncnggaccga gcaccaagg 269

<210> 4135

<211> 277

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559058H1

<400> 4135

ccaaagcaat ggcttccctt gcagcatcca ctgctgctgc ttcccttggc atgtgcagaa 60

atgcttggaa acccatcaa cttcagtggg gccacaaggc cagctccatc tgcttctagt 120

cctgcctcct tcaagactgt ggctcttttc tccaaaaaga aggtacacc aacacctcca 180

aaaaaannnn nnnnnnnnnn nnnnnncaat gatgagcttg ccaagtggta tggctctgac 240

agaaggatct tcttgctga gggtccttgg accgatc 277

<210> 4136

<211> 276

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559059H1

<400> 4136

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aactacgagt tgcattcaac aacctcttcc acgaatttct tttctctcga cgagggtaaa 120
 ctcgtaatgt tcgtttcgat tttttccaaa agcgctgcn tttcttcccg agcgaaatct 180
 tcttttcttc cacgaacctt ggattcattt cagtagcatc tttcaggggt tatattccat 240
 tgaattttac aactttntat tttggtaatt ccatta 276

<210> 4137
 <211> 277
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559060H1
 <400> 4137

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 gtggccaagt tcttgtcttg gatgatattc aaggctgana aagccaagga natcatgtct 120
 tttgccggca aaggaatgtc tcaaaaccag aacgactgtg cttacacttt ccntgctaca 180
 acttctggct antcccagta gaccattccc ttttcttatg aatatcattc caaccactgc 240
 caacaattcg gttcaagacc ancctgaaac accatcc 277

<210> 4138
 <211> 277
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559064H1
 <400> 4138

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 tgatgaccca gaggcctttg ctgagcttaa ggtgaaggaa ctcaagaacg gacgattggc 120
 catgttctct atgtttggct tctttgttca ggccattgtc accggaaagg gtccattgga 180
 gaacctcgcc gatcaccttg ctgaccctgt caacaacaac gcctgggcct atgccaccaa 240
 cttcgtcccc ggaaagtgag cgtcaagaac gaaatga 277

<210> 4139
 <211> 270
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559066H1

<400> 4139

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 atccaatcga aaaaaattga taacatcaca cagcattagt atgtatcagc aacaagggtc 120
 agatccaaca aagcaatcac cggcaaccgg ttttccggtg agctatagca attcaacaac 180
 gtatttgacc aacgaggctt cctacgctcc agtcccacct cccagccca aacctcttgt 240
 cgnttggtcc accggcctcg tgactgcttc 270

<210> 4140

<211> 279

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559067H1

<400> 4140

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 gagcaacact ttggcagcaa aagtctantc agtccatttc caaggctttt gggttggaac 120
 ctgttgaggc taaaaaggct acatgctccc ttcaggctga tottaaggan ttggctcaca 180
 agtgtgttga tgctaccaa attgcaggat tcgcccttgc cacctctgcc ctcgttgtct 240
 ctgggggcaag tgctgaaggt gttccaaaag gctaanctt 279

<210> 4141

<211> 273

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559068H1

<400> 4141

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 gaancctgac ctccgctctc tctttcttct ctctctcttg tccatcgctt ccgccaatgt 120
 cttcttcgaa gagcgtttcg atgacggctg ggaaaatcga tgggttaa at cagattggaa 180
 aaaagatgag aacgtggctg gggagtggaa ccanacctct ggtcaatgga aggagacgct 240
 aatgacaaaag gtattcaa ac catgaggatt aca 273

<210> 4142
 <211> 278
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559069H1

<400> 4142

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 actctgccac cctgccatct ctccatcttt tggcttgagg agtctgaaat cgagctcttt 120
 atttggagaa tctctaagag tggcatccaa atcaacacta aaggtttcaa agacaaagaa 180
 tacttcactc gtgaccagat gtgaaattgg tgacagtctg gaagaattcc tcacaaaagc 240
 aacaccagat aaggggttga tcaggttttg gtgtccat 278

<210> 4143
 <211> 103
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559070H1

<400> 4143

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 gttaaaaaag attattttat tgatatnttt agaatatctc tat 103

<210> 4144
 <211> 276
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559073H1

<400> 4144

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 gcttagcggc catgacatat ttggctccgc caccagaaat caaaccagg ccaataactc 120
 ctgcatact ggagttgana ggaagcatag acattggaga acgtcatgct gatggagatc 180
 aaggcgatac caactctgct gggaagacag cnaagaagat ctatgacaag aaatttgcag 240
 aactttcagg gaatgacata ttcangggga tgcanc 276

<210> 4145
 <211> 274
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559074H1

<400> 4145

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 agatgaggtg gttctgctag atttctggcc aagtccattt gggatgaggg tcaggattgc 120
 acttgctgaa aagggtatca aatatgagta caaagaagag gacttgagga acaagagtcc 180
 tcttctcctc caaatgaacc cggttcacia gaagattccg gttctcatcc acaatggcaa 240
 acccatttgt gaatccctca ttntgttcag taca 274

<210> 4146
 <211> 273
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559075H1

<400> 4146

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 atcatggcta tgatgaaacg tgctgcttcc tctgcgcttc gctctcttat tgcctcatcc 120
 tccaccttca ccagaaacct tcatgcctca ggtgaaaaga agaagattgt ggggggtgttc 180
 taaaaagga atgaanatgc taaattgaat ccaaattttg ttggatgtgt tgaagggtgca 240
 ttgggaatac nngagtggct ggatcacagg gtc 273

<210> 4147
 <211> 273
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559076H1

<400> 4147

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 atgttggtgc agttgcacia cacaacaaa gatanataga ttcattcata ttagtattag 120

<400> 4150
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 accnngcnag gggaattcaa nntnagcaa tggcggtttc tncttctgca acaanatggg 120
 tccgtncnng cttctggcgc tgctcatnng agaagaagcc atggccatgg ntactacncc 180
 acagatctct gacctcagga atgttgaagt tgaaagacac aggttgccga gcttgacgaa 240
 ctcgtcaatg gtggagaggg caaaagggct gacaaat 277

<210> 4151
 <211> 278
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559081H1

<400> 4151
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 cgataaggat gacgagaaga ggtggatgga actcactggc cgagacttga atttcacaat 120
 ccctcctgaa gcaagcgatt tcagttcgtg gagaaacctt cctaaccacg actttgagct 180
 tgaaaggccg cctacnccaa tcaagagtgc tcctaattct catcctaaaa aactgcttaa 240
 tggaaactgtg ctgaatctgt ctaaccaagc aatgggtga 278

<210> 4152
 <211> 278
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559082H1

<400> 4152
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 aaggctattg gatncattga tatgatgatc gattactcat cagccaatgc acctctacag 120
 aaagaactat cagcagagga ggtgggcaac acagctgcct tcttagcatc acctttggca 180
 tctgctatca ctgggtactgt tctatacggt gacaatggtc tgaatgctat ggggtgttga 240
 gttgacagtc caatatTTaa agatctgaca ttcccaag 278

naagctttga gaaagctctt ttgattgccacacaaaggac aaaagttgat gttgcatggc 240
aggatggaac catagagcgt ggactaaatc tacaagttt 279

<210> 4156
<211> 264
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559086H1

<400> 4156

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ngcgcgctga cactgctttg ccgganactc tcaccagaat ccggtgccag aagcctctct 120
ctgtccgatg ctctggcgat tccccttcg gctctgtggg ttccggagttc gatccgaagg 180
tgtttcgtaa gaaccttact cggagtaaga attataaccg caaaggattt ggggtacaagg 240
aagagaccct ccantcatga atcg 264

<210> 4157
<211> 275
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559087H1

<400> 4157

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aagctcatgg cggatgctgg tgaagngtgc aagtccttgc acctttctga cacacagtgg 120
tagtaagcga agaggggttg gcaaagtaan agttactgct gaagactcag tttctccctc 180
tgagaccatt gcagatgact attatgaagt tcttggaactg cttccagatg cgacaccaga 240
gcagatcaag aaggcatact acaatgcatg anac 275

<210> 4158
<211> 273
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559088H1

<400> 4158

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 attgggtggg gcaacgtgtt catgatgttc tgaaggcta tccacgtttg cgcttaactc 120
 atgggcggaa ggttttagag atccgacctg tgattaactg ggataagggc aaagctgtca 180
 cgtttctact tgagtcactt gggctaaaca attgtgatga tgtgcttctt atatatattg 240
 gagatgatcg gacagacgaa gagcatttaa ggt 273

<210> 4159
 <211> 272
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559090H1

<400> 4159

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 aatgctgttc anatacagtg gtgcctcagc tgctctcact gtagaccctt cactacactt 120
 gtcaagagct tctagcattg tnatgttgat tgcataatgtt gtctacattg tctttcaact 180
 gtggacacac agggagttat ttgaagaaga agatgacggg aaagatggcg aggatgggtc 240
 agaagaacaa gctgtgattg gatatggagt gg 272

<210> 4160
 <211> 275
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559091H1

<400> 4160

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 ctatgnccac cgaacaaatc tttncctgct catatnggta gcattttccg gnggtggcnn 120
 nagtggccgc tctcngagac ccaaatacaa gatcgaattt catccgaag attncccttt 180
 tcaccctgat gatgatcagg antctatagt catgccggat aaaactggac anaaatatat 240
 atgttactta cctaaagtgg naaagaaaaa nggtgg 275

<210> 4161
 <211> 272

<212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559092H1
 <400> 4161

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 tgcgaaaatg agagantgca tctcgntcca cattgggtcag gctgggtatcc aggnccgaaa 120
 tnccttgctgg gagctctact gcctcgagca cggcatcgng cccgatgggc aaatgccaaag 180
 tgacaagaca gttggcggtg gtgatgatgc tttcaatact ttcttcaccg agactggtgc 240
 tggaaagcac gtgccacgtg catgtntgtn ga 272

<210> 4162
 <211> 277
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559094H1
 <400> 4162

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 aggtgtctac tatctgacta cacatgtgtc tgtgnacatt gtctttcaat tgggtgaagt 120
 ctgnntgang agcantgnag acnnatacca gtaccantnc cccatacaac canaagncgg 180
 tcngggttagg caccgaaaac gctcaaatga cgttattccg gaggttagca aancanattg 240
 accccaatta ntgggttgatg acnaaacaaa tncaant 277

<210> 4163
 <211> 281
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559095H1
 <400> 4163

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 tcgtgtgcct attggaaatc acgattgggg aacttaaaaa actcgttgag gagggaaaaa 120
 taaaatacat tgggtctgtct gaggcctcgg cttcaacaat cagaagagca catgcagttc 180
 atccgataac agctgtgcag ttggagtggc ccctatggtc aagagatgtg gaggaagaaa 240

tagttccaac atggcagggga acttggtatt ggaatgttgc a 281

<210> 4164
<211> 286
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559103H1

<400> 4164

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gaagatggag gtgnggccag gcgncgtct ggtaccgatg gtgtccggga gcggaggggc 120
tcgtccgna gctagaagga ggagccaaga tgagcccgtt cagtcgggga tgaacgggat 180
tccgaaacac tctactggc tggatctctg gctcttcac cttttcgacc tggcgttgtt 240
catcttcgtg tacctcttgc cctgattggt ttgctgagat ctagaa 286

<210> 4165
<211> 281
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559104H1

<400> 4165

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caatatatgg ctatatgggg taatttggct gccttttatg tcatcaactg gatcttcagt 180
gcgcttcctt catcggggat gtatacaatt atgtttcgggt tgtgtcgaca accgtcatat 240
tggatagcaa tttttctcat ggttgcggcg gggatgggtc c 281

<210> 4166
<211> 283
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559106H1

<400> 4166

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angccggacg agttcgagtc tggcatctct caggcgctgn tcgagctgga gatgaactcg 120
gatctgaagg cgcaactgncg ggaactcaac atcaccgcgg caaaggaaat cgaagtcggg 180
ggtggtcgaa aagccatnat aatttttgta ccagttcctc agctgaaatc tttccagana 240
atccaagtcc ggctagttcg tgaattggag aaaaagttca gtg 283

<210> 4167
<211> 282
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559107H1

<400> 4167

ggacttcgac agtccgtcat cagcacagaa ggctgtaact gcactganat ccagtggtgt 60
gcaggcacia ntggcaaagc aacaggagca agaccctaca aatntataca tctnanacct 120
ccctctgtca atggacgagc angagctgga ggngatgctg aagcccttng gcnaggttat 180
ctccactcgg atcctccgan acaccantgg ggccagcaga ggggtcggct ttgcaaggat 240
ggaatccaca gagaagtgtg aagccatcat canccacttt aa 282

<210> 4168
<211> 168
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559108H1

<400> 4168

cccggcacca tgtcggagaa gagcgtggag gcagcggccg agctaagcgc caaggacctg 60
aaggaaaaga aggacaaggt ggaggagaag gctggccgga aagaacggaa gaaagaagta 120
gtggaggagg aggagaatgg agctgaggag gaggaagaag aaactgct 168

<210> 4169
<211> 277
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559110H1

<400> 4169

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cttnagctca gccctgctag ccttaactga gaaagtggaa atttaagatg ggatccgtgc 120
ancgtatggg gtcaacaccc atggcatggg ttagtatcat accatatgct tggttttctg 180
cctgtgaact tgtgagatag naaaacagct acctagtcac ccaattttac tggtttgtata 240
tttattggat gttttgtgta cttacatttc aaatgac 277

<210> 4170
<211> 279
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700559112H1
<400> 4170

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tgagtattta taatcttaaa tttgaaattt ttttcatttc agattttcct gaaaacatga 120
actatcaaga aagaaatgtg acacaaacct aagcacatta ttttctattt atgacttagg 180
aattggcctt tcatgacctt ggctgacatc cagatgccta tagagtatat atgcacctga 240
gactgatttt gtatagatta gaatgattgc tatatttgc 279

<210> 4171
<211> 277
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700559114H1
<400> 4171

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agatgggtgga ctacagcgtt tgggatcaca tcgaggtgtc ggacgatgag gacgagacgc 120
acccaacat agacacggcc agcctgttcc gctggcggca ccaggcccggt gtggaacgca 180
tggaacagtt tcagaaggag aaagaagaac tggaccgggg ctgccgggaa tgcaagcgca 240
aggtagccga gtgccagcgc aactgaagga atggaat 277

<210> 4172
<211> 86

<212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559115H1

<400> 4172

gcnatctggn ttctgcntcc gctccatccc ctengcaacc cgaagtgcng gaacatganc 60
 gtgttgagcg cgcctgangt cnnanc 86

<210> 4173
 <211> 282
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559116H1

<400> 4173

cctcgaatct cgtgcacgtg ccgttgacgc aaaaaatgcc agaaattcag ttgggtatgc 60
 atactatcag atcacatgga actagagtgg caaggacaca tatgcacgac tggttgattc 120
 ttttgcttct tgtgatcatc gatgctgtct tgaatttaac acagccattt caccgttttg 180
 ttggagaggg gatgatgaca gaccttagat acccattgaa agctaataca attccctttt 240
 gggctgttcc gataatagca atattgttac cactggctgt tt 282

<210> 4174
 <211> 287
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559117H1

<400> 4174

gaccogtcaa catgggcccgc gttcgacca anactgtgaa gaaggcggcc cgggtcatca 60
 tcgagaatac tacacgcgcc tgggtaatga ctttcacacc aacaagcgcg tgtgcgagga 120
 gatcgccatc atccccagca aaaaccttcg gaacaagata gccggctatg tcacgcatct 180
 gatgaagcgg attcagagag gtccctgtgag aggcatctcc atcaagttgc aggaagaaga 240
 gagggagagg agagataatt atgttcctga ggtctcagcc ctagatc 282

<210> 4175
 <211> 284

<213> Glycine max

<223> Clone ID: 700559118H1

<400> 4175

ggccaacat	ggctccgcgg	ttgtgcatca	tctctgcagc	agcacggcgg	ctgctaagga	60
agccgggacc	ctgtnttggg	gacctcgcgg	ctgcgcgtgc	tgtgcgattc	tattccaagg	120
acagtgaagg	canctggttc	cgctccctct	ttgttcacaa	ggtggatcct	cggaaggacg	180
cncactccac	tctgctgtcc	aagaaggaga	ctagtaatct	ctacaagatc	cagtttcaca	240
acgtgaagcc	cgaatgtctg	gntgnctaca	acagtctgac	ggag		284

<210> 4176

<211> 252

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559119H1

<400> 4176

ganccgagat	gcctaangga	nctagagagn	gaggccataa	aggccngtg	aggcagtata	60
caagccctga	ggagatcgat	gcccgactac	aggctgagaa	gcagaaggcc	aacgaagaag	120
atgaacaaga	agaaggtgga	gatngggctt	cgggtnaccc	caaaaaggag	aagaaatctc	180
tagactcaga	tgagagttna	gatgaagatg	atggctacca	gcaanagcgn	aaaggtgtgg	240
aagggtcatt	ga					252

<210> 4177

<211> 272

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559121H1

<400> 4177

tggcatttgt	acacagacta	cactaaagga	tggagtgcaa	gggtgacact	tnntaactgg	60
ggtgacacta	at tt tgcaga	ctgg tttgcc	gc agtaca aa	tggacaaagc	agcttcgggt	120
tttgagaaaa	tgtattcatt	caatgcaact	cttctagatg	gtgtaaacaa	tacaataatc	180
atgcaagggt	tgccaggatt	gaactacctt	gtagcagaag	cagatggagc	tgaccctttg	240

agagatccta gggcgcttg taaacaacaa tc 272

<210> 4178

<211> 241

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559123H1

<400> 4178

tagtgtatgc cactctgggtt aattatcata ccccttcta ggcatagttc ttctccctct 60

gttctctatt ctacactgtg aaaccaagat gaaggtagca tttgtagctg ttctacttat 120

ttgccttgct ctaagctcct ccttggtcga ggtgtcaatg gccggttctg ctttctgctc 180

ctccaagtgc gcgaagaggt gttctagggc tgggatgaag gacaggtgca cgaggttctg 240

c 241

<210> 4179

<211> 281

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559124H1

<400> 4179

angactcanc gatgnatcaa agatagccat tntgaatgna aactacatgg caaaacgagt 60

ggagnnttat taccggttc ttttccgtgg antcaatgga acagttgctc angaattcat 120

cattgacttg agaggcttta agaatactgc tggaattgag cctgaagatg ttgcaaagcg 180

cctcatggac tacgggtttc atgnaccaac aatgtcatgg cctgtgcctg gnacactcat 240

gattnagcct actgagantg aaancaaggc cgagttanac a 281

<210> 4180

<211> 278

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559125H1

<400> 4180

ttcactccga cccatttgca taacttcgct gatctctcgt tttcaccatc tgggtctccc 60

caatttttcgc ctgcattctt gttctttctcg atccattggt gatggcatcg atgggttctt 120
 taccgtttct tgtggaagcc aatgccgact ccactttgat gatgatgatg cttcagaaca 180
 ggaatcaciaa gttttcttca ccaaagtta acactgtgaa tgcttcatcg ttagtaagag 240
 gatggggggcg tggaagagtg aaccataggt gtagtagt 278

<210> 4181
 <211> 278
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559126H1
 <400> 4181

tnangcnaag cngtgtttgc ataaaatgta ctaaacagtg tcattataca ctactttgaa 60
 aattgtcaca tgtttctaag aaacaattac tttttatgcn aacacagctt ggctttaaga 120
 caatgacaaa agttatgcag gttacacagt ggagtattac tcaactccca actacgacag 180
 tgnccntaca gtctctcttt aaacagcata gggcttcaat gaaaacagag tgcaattaat 240
 gtcattggctt gtaaagtctg attacagagg tacagcaa 278

<210> 4182
 <211> 182
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559128H1
 <400> 4182

gncgccgctt gtgccgccgc natgtcccta gtgatccccg agaagtttca ncacatcctg 60
 cgagnactca acaccnacat cgatgngcgg cggaaaatan ctttcgctat cactgccatt 120
 nanggtgtgg ngcgngata cgctcatgtg gtgttganga aagcagacat tgacctcacc 180
 aa 182

<210> 4183
 <211> 278
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559131H1

<400> 4183
ganttcgcng angannnggc tacattanag gcatcgtaaa ggacatcatt catgaccctg 60
gccgcggctc tcccctcgcg anantantct ttcgtnatcc ctatcgattc aagnnncgna 120
cagagctgtt catcgccgna nagggaaatcc aactngaca gtttgtgtac tncgncaaga 180
nggcccagct gaatatttgc aatnngntgc ncgtnggcan catncctgan ggtactatcg 240
tgtgttgtct ggaggagang cctgcggaca gggcaagc 278

<210> 4184
<211> 285
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559132H1

<400> 4184
agaaagcaag ctcatcctag agttttaaaa atggcagcag cctcctccat gngctctctc 60
ttccccatcc ttggctggca aggccgtgaa gctgggccc ttagcccccg aagtcgggag 120
ggtcagcatg aggaagaccg tcaccaagca ggcctcctcc ggaagcccat ggtacggccc 180
agaccgcgtc aagtacttgg gccattctc tggcgagccc ccgtcctacc tactggcgga 240
gttcccaggt gactacggct gggacactgc tgggctttcg gccga 285

<210> 4185
<211> 279
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559135H1

<400> 4185
gcgttnggtt acgttataga aaatgnggc attgacacag aagcncatta tccttacaca 60
gcncaaaacg gtacttgcaa ggcgantgca cacaagggtg ttantattga taancttcta 120
gttgtgggtg gancanaaga agctctcttg tgccgtgtna gcaaacaacc tgtagcgtn 180
acatagatgc aactggcctt caatttatgc gggtnagatc tatngtggtg agantgctca 240
nagaattcan caanagecgac tcttgtntgt ttaatcgng 279

<210> 4186
 <211> 108
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559136H1

<400> 4186

actnaacang gtcattgtgcc cngtttgtgc ttactcngcc aaactctgtg nctacnaatc 60
 tcggaagcac ngtnaaactg tgcgngcaag cgcagcactg gnannatt 108

<210> 4187
 <211> 281
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559137H1

<400> 4187

gccagaggta acctgtgaag atggttcgct actcccttga cccagaaaac cccacgaaat 60
 catgcaagtc aagaggctca aaccttcgtg ttcactttaa gaacaccgga gaaactgccc 120
 aggccatcaa gggatatgat atccgcaaag ccaccaagta tctgaaggat gtcactttaa 180
 agaagcagtg tgtgccattc cggcgggtata atgggtggagt cggtaggtgc gccagggcca 240
 aacagtgggg ctggacacag ggacgggtggc caaaaaagag t 281

<210> 4188
 <211> 280
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559138H1

<400> 4188

gggaaagcat gggacaccgg tatattgagg tgttcaagtc acacagaacc gagatggatt 60
 ggggtgttgaa gcacagtggc ccaaacagcg ccgacagtgc caatgatggc tttgtgaggc 120
 ttcggggact cccgttttga tgcacaaagg aagaaatcgt tcagttcttc tcagggttgg 180
 aaattgtgcc aaacgggatc acactacctg tggacccgga aggcaagatt acaggggagg 240
 ccttcgttca gtttgcttca caagagttag ccgagaaagc 280

<210> 4189
 <211> 280
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700559139H1

 <400> 4189

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 atggaaatgg anaganaatt gtcgattcaa ttgancagct acctgctgtg gaagtgggtc 120
 ttggtcagca tgtctntttc actgtggggg actattccct tgctggaaaa tctgactgat 180
 catatnntcc aagtgttcct ntntgatctt ttatccagtn tgcattgctat ctgtttgcaa 240
 gattaggaat anagaatata cccaggcatg cctaattgta 280

<210> 4190
 <211> 279
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700559140H1

 <400> 4190

 cacaaactca gaaacagaca ccatggtgca cctgactgat gctgagaagg ctgctgttaa 60
 tggcctgtgg ggaaaggtga accctgatga tgttggtggc gaggccctgg gcaggctgct 120
 ggttgtctac ccttggaacc agaggtactt tgatagcttt ggggacctgt cctctgcctc 180
 tgctatcatg ggtaacccta aggtgaaggc ccatggcaag aaggtgataa acgccttcaa 240
 tgatggcctg aaacacttgg acaacctcaa gggcacctt 279

<210> 4191
 <211> 281
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700559141H1

 <400> 4191

 aaagccttag ccttccttac aactccaaac aacnnagaca tcattcatcca tggctgcctc 60
 cgtcctccac tgtcggagcn gtcaacagag ctctnttgaa cctgaatggt tctggagctg 120
 gagcttcagc tcccagttca gccttcttng ggaccagctt gaagaaggtt attgcctcaa 180

gaatgagaag ttcaaaaagg atgaagtatg gggatcatctt ggtaaaaagta agtctcatc 240
 aaaagacaat aacggggaag aaaatgcctt tgatgaa 277

<210> 4195
 <211> 277
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559145H1

<400> 4195

ctaggacaaa agttatcaca gtgcatacgt gacaatctac cctcaaaaact ctcagcatca 60
 atcaaacagt cacaagaaaa ggccatgaaa cactatgatg ctaatgccac aaaatgggtgg 120
 cagtcgtggg gatgtccatg ttgaggataa ccaaaacatg tcctttccgt cgtgggaggg 180
 aacctttatg aggtgcttca gtgaaataga tgaaaagctt gctaagaaca tcgacactga 240
 tggatttcat ggcggtacac ttctgtatct gtactca 277

<210> 4196
 <211> 278
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559146H1

<400> 4196

gagacagtca gtctgcttct atggactcct cancagcttg tgttttctag ggagctgacc 60
 aagtcactgc ttcccaggta ggagctgcag atatgggggc cttctgtgg tcaactcctgc 120
 tgctgcttca tgaagccaaa gggttttctg gagatgatga ggaccctgag gaagtgggtg 180
 ctgtccttca agagtctgtc aacctctctc tggaaatacc atccaatgaa gaaattgaca 240
 acattatctg gttctctcaa aaaaaccttg ccaccgtg 278

<210> 4197
 <211> 280
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559147H1

<400> 4197

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 gggaaatcgc cagcttcgat aaggccaagc tgaagaaaac cgagacgcag gagaagaaca 120
 ccctgcccac caaagagacc attgaacagg aaaagaggag tgaaatctcc taaaagccta 180
 ggaagatttc cccaccccac cccttcattc ccaagaacct cctcgtgatg tggaggaaga 240
 gccacctgca agatggacgc gagccacaag ctgcactgtg 280

<210> 4198
 <211> 281
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559148H1
 <400> 4198

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 cagttctcca gccaccgta ctcggtctgc atccccggat gggtcctcag tggccgcggg 120
 atacggagcc tgctgctaag gaaccgggat tctccatttc ggcagtagaa gcacggacct 180
 taatggtcgc atgcgcagtg ataattccgc ggcctaccga ccgcgccttt tgactgctgt 240
 tcaggtgaag attgtggtga ggaaggagac cagaagatgg g 281

<210> 4199
 <211> 284
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559149H1
 <400> 4199

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 ctggnacct aaggtgaaga tgctgggggg caaggagttc ctggtgtcca tgacaaactc 120
 catgatgctg tcagaactga agaagcaggt tgctcagaag agtgggtgtgc cagctttcca 180
 gcagcgctg gccacccaaa gcggtgaaat gctacaggat ggtgttgccc ttatcaggca 240
 gggccttagt tctggcagca cagtcattgt gatggttagag aact 284

<210> 4200
 <211> 279

<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559151H1

<400> 4200

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agaactgtgg agcccagcct gccctgcact tcaggaccct gtcccttcac tgcccgcctt 120
cccttccaca ttcagccttg ctggtccagc ctgggggtgg aggggtggga catctgcac 180
ctgtccccct gtgctaccct gagcttcagc ccctcacttc caccctgaga ataagaatct 240
gagtgtgaat tgattgttca catccttgac acaagtga 279

<210> 4201
<211> 278
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559152H1

<400> 4201

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tttttcagta agtttcttaa atacatgggtg tgaagtacta tttgcatggc ataaacaggt 120
ttttaaaaga tcaagcctta ctcatctgtc ttatcattag atacttaaag accaaatgca 180
aaactgactg aatttgcctt gaggcaaaca gttaaaggcat ttcaggtgtt gaccgcagac 240
tccagcagct gacaggtttc ttcttgcact tgggggtg 278

<210> 4202
<211> 278
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559153H1

<400> 4202

ggctggtgtt gcagagagac tcagggccta cctggagggc acgtgcgtgg agtggctccg 60
cagatacttg gagcacggga aggagacgct gctgcgctta gatcccccaa aggacatgt 120
gacccttcac ccagacctg aaggatgatg caccctgagg tgctgggccc tgggcttcta 180
ccctgctgac atctccctga gctggcagtt gaatggggag gacctgaccc aggacatgga 240

gcttgtggag accaggcctg caggggatgg aaccttcc

278

<210> 4203

<211> 276

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559155H1

<400> 4203

anattggagt cgtttgggtga actggtgggg ctctgggagg caaagggtcag ttccggggccg 60

tagggcggna ggctttgggg caagagagtc aggaaggatc ccgcggacga ganccgggat 120

ctgaggggtt tgagagggcg gggcttgang aagcgaactg gttgacccgg ctctgantg 180

gatctgtcgg nccanaaccc gcagtcgtgc agcncccagg tttctttcat ngcggtcaga 240

gcgtcgttcg agaacaactg tgaggtcggt tgtttt 276

<210> 4204

<211> 275

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559157H1

<400> 4204

gggagaggag tcgccgccat gtccgcgcac ctgcaatgga tggtcggtcg gaactgctcc 60

agtttcttga tcaagaggaa taagcagacg tacagcacgg agcccaataa tctgaaggcc 120

cgaaactcct tccgctacaa cgggctaatt caccgcaaga cggtcggagt ggagcctgcg 180

gctgatggca aaggggtcgt ggtggttatg aaacgcagat ccggtcagcg aaaacctgcc 240

acttcctacg tgaggaccac catcaacaag aatgt 275

<210> 4205

<211> 275

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559158H1

<400> 4205

ctggagacga cgttcagaaa tgcgcacctc gcaaggggaa ggaaaagaag gaagaacagg 60

<223> Clone ID: 700559162H1

<400> 4208

gacatattaa aatagccgat tttgggagtg tgaagcctat gcaggatagc caaataactg 60
tccttccaaa tgcagcatca gatgacaaag cctgcacttt tgtgggaaca gctgcttatg 120
ttcctccaga ggttcttaat tcctctccag caacttttgg aaatgacctt tgggcacttg 180
gctgcacatt ataccaaag ctttctggaa cttccccttt taaagacgca agtgaatggc 240
ttatttttca aagaattata gcaagagaac ttagatt 277

<210> 4209

<211> 281

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559163H1

<400> 4209

taaccaaaca caccacatgg aaatcagcca aatcccgttt ttcacccaag aggactactg 60
ctcacttcta caacctctac gaagnccaca gactctaaca acagtctcaa caataacaac 120
agcaacaaca agagaaagcg taacaacaga aaagaagaag gtagtggtgg aggtgcagaa 180
caaaaagggc nnnnnnnnnn nnnnnnnnnc gagaacagtg aaagtaactt gaaggactta 240
cttgcttcgc tgattatggt agacgaggaa gaaattcaag a 281

<210> 4210

<211> 281

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559164H1

<400> 4210

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tgcagaccag cggaaaacca aagaggatga gaaggacgac aagcccatcc gagctctgga 120
tgaaggggat atcgccttgt tgaaaactta tggccagagt acttattcga ggcagatcaa 180
gcaggttgaa gatgacattc agcaacttct taaaanaatt aatgagctca ctggtatcaa 240
agagtccgan actgggctgg cccctccagc ccnctgggat t 281

<210> 4211
 <211> 228
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700559167H1

 <400> 4211

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 cgggcggcgg cacagcaggc ggggaccgct gggaaggcga ggacgaggac gaggacgtga 120
 aggataactg gnnnnnnnnn nnnnnnnnnn nnnnnnnnaga agcagaagtc aaaccagaag 180
 taaaaatttc agaaaagaaa aaaatagcag anaagatann agagaaag 228

<210> 4212
 <211> 246
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700559168H1

 <400> 4212

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 tgagcagctg cccatcctgg gccagcgtgc tagagcccca gaaagcaatt gcaaccgtgg 120
 agtcctgtac accagtgtct ctgtcctggt ggctctgctc ttggctgggc aggccaccac 180
 tgcttacttc ctgtancagc agcagggcgc cctggacaag ctganogtca cctccnagaa 240
 cctgca 246

<210> 4213
 <211> 89
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700559169H1

 <400> 4213

 ggccttagct gctctcaaac agattcagcg ttggccggtc gctctcccgc ncngettgca 60
 gtgcggggccc aggaaagcac cgtcagcct 89

<210> 4214
 <211> 97
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700559170H1

 <400> 4214

 ggtagccaga gcnaaccctc cgctnacttg ncagatngcc anncgccctnc atgacttntg 60
 gaagantttct ctgctnccat cgtgctanta caggtgc 97

<210> 4215
 <211> 277
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700559171H1

 <400> 4215

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 atgctatgcc aagtttatct acagcaaagtg ttgatgcaca nacagttgct actcccttta 120
 gancagatgt atctnccctg ggttcatata cacaatctgt gattggttga agtgggtcgaa 180
 gaaggtnttc aganatgcct cattctgctt caactcacia ggaacaacct caaacaactt 240
 accgggaccg tgcagctgag angaggagtt tatatgg 277

<210> 4216
 <211> 281
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700559173H1

 <400> 4216

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 atgggaaagt cttacccaac cgtgagcgct gattaccaga aggccgttga gaaggcgaag 120
 aagaagctca gaggcttcat cgctgagaag agatgcgctc ctctaagct cggtttggca 180
 tggcactctg ctggaactta cgacgtgagc tcgaagaccg gtggtccctt cggaaccata 240
 aagcaccct ccgaactcgc tcacggcgta acaacggtct t 281

<210> 4217
 <211> 279
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700559174H1

 <400> 4217

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 gaanaatata gttggatttt aagtttgagt ttttcgtctt aatttagtct tctgtttatt 180
 ttctatctgt tgattgactt gggcatagtg gaaaaagaat tatatttggtg gacaatctgt 240
 tatgtaatag ggggtgtttt ctggctatga agctcacca 279

<210> 4218
 <211> 274
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700559176H1

 <400> 4218

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 aaacttgat cgagaaatgc gtgacaacaa tatctcacct gaccaagcaa catttggttac 180
 tgttcttcaa gottgtgctc tcttatcctc gttgcatgat ggtagagaga tacattctct 240
 aatcttccat actggttttg acttggtatga gtta 274

<210> 4219
 <211> 276
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700559177H1

 <400> 4219

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 ccaacacaga gaggtacagc aacgtagttg tgggactaaa cgacaccatg gaaaacctct 120
 ttgcttcctt ggacaggaat gaggctgaga tttccccttc caccttgat gccattgctt 180

gtgttatgga aaatgttcct ttcatacatg gaagccctca gaacaccttt gtcccaggac 240
tcattgatct ggccatcaaa aggaatagtt tgattg 276

<210> 4220
<211> 237
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559179H1

<400> 4220

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gttctctatt ctacactgtg aaaccaagat gaaggtagca tttgtagctg ttctacttat 120
ttgccttgtc ctaagctcct ccttggtcga ggtgtcaatg gccggttctg ctttctgctc 180
ctccaagtgc gcgaagaggt gttctagggc tgggatgaag gacaggtgca cgagggt 237

<210> 4221
<211> 279
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559180H1

<400> 4221

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gcttcccttg gcatgtcaga aatgcttgga aaccccatca acttcagtgg tgccacaagg 120
ccagctccat ctgcttctag tctgcctcc ttcaagactg tggctctttt ctccaaaaag 180
aaggctacac caacacctcc aaaaaaannn nnnnnnnnnn nnnnnnncaa tgatgagctt 240
gccaaagtgg atggtcctga cagaaggatc ttcttgctt 279

<210> 4222
<211> 279
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559182H1

<400> 4222

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acccaagctt ccaccttcgc cgtcgcggtt ccttcgctc caaccccttt ccgccgccac 120
 cggaatccct tcgttggttcg agcccaagcg gaaccttcag ataaatccgt tgaaattatg 180
 aggaagttct cagagcaata cgcccgttaag tcaggaacat acttttgtgt tgacaagggg 240
 gtcacttctg ttgttatcaa ggggttggt gaccataaa 279

<210> 4223
 <211> 279
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559183H1

<400> 4223

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 tcatcaacca tgtcgttctt cgaccttctc ttatctctcg ctctcccaat ccncttcctt 180
 ctcttcaca ctccagaatgc atgtctcctt tctcgatggg tttagggagc atgcgattct 240
 anagtgaaga ttgacccac gtgcccaata ttaaggacc 279

<210> 4224
 <211> 276
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559184H1

<400> 4224

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 tgtgtggtgt ggtgtttgct gtgctctcct tttcgttatg ctttttatta ttacctatct 180
 gtcgctccac tccgtattac gactctggat cagaggatac atcagaggat tcgctccaac 240
 ccctatcgag taaggtatta tctgtcaatt tacatt 276

<210> 4225
 <211> 276
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559185H1

<400> 4225

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 gatgcgactg agaccagtgt tccgatcant ganttgaga tcttatcatg nctnccatt 120
 catcaaccat gtggttcttc gaccttctct tatctctcgc tctcccaatc ctcttccttc 180
 tncctcacac tcagaatgca tgtctccttt ctcgatgggt tnaggagca tgcgattcta 240
 tagtgaagat ttgaccacg tgcccaatat taagga 276

<210> 4226

<211> 276

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559186H1

<400> 4226

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 ctttgtgttt ttctttttta ctgctttctt tttaaacccc caagacaggc ttgagaagac 120
 ttctgaaatg atttttttaa gccgaataga agacaggatc cgacacctcc cacaagccct 180
 tgacgggttt tgtttgagtc tgattttttt gtgtgtatga tttttttttt aaagcctttt 240
 acatactttg ttttgatctt gtgaggctgg gcctct 276

<210> 4227

<211> 274

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559187H1

<400> 4227

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 agggctccaa caaactcacc atccttcaag gctgccctgg cttgcctgga gccctggggc 180
 ccaagggaga ggctgggtgcc aaaggagata gaggagagag tggccttcct ggacaccctg 240
 gaaaggcggg gccaaactgga cncaaaggag accg 274

<210> 4231
 <211> 274
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700559193H1

 <400> 4231

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 aagtgactat gagctgcaag tccagtcaga gtcttttatg gattggaaat caaaggagct 120
 gtttagtctg gcaccaaaga aaaccagggc agactcctaa accactgatc acctgggcat 180
 ccaatagggga acctgggggc cctgatcggt ttataggcag tggatctgga acagatttta 240
 ctctcaccat tagcagtatg caggctgaag atgt 274

<210> 4232
 <211> 275
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700559194H1

 <400> 4232

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 cgatgagctt gttgaaaaca tctacactgt gttagatttt tttaatagtc gcatggatgc 120
 ccaaagaatg aatgggtgatt ggtctgtcaa tttagtgtc caagtataa ttatgaactg 180
 tcggtcttgg catgctgatg ggatgaagat gtttactcaa cttcatttca catatgaaca 240
 agagagtcac ccagaggagt tttttatccc atatg 275

<210> 4233
 <211> 179
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700559195H1

 <400> 4233

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 ccatgtgtgt nnaaagcttc tcngactacc ctccacttgg tcgttttgc gnnctgaca 120

tgaggcagac agntgctgtg ggtgtcatca aancggtgga caagaaggct gcaggagct 179

<210> 4234
<211> 279
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559196H1

<400> 4234

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catcagcctt ggacctcagg tggctgaagg agagaatgta tttgcgngtc tgccacatct 120
ttgcatcctt caatgatacc tttgtccatg ttactgatct ttctggcnag ganaccatct 180
gncgagtaac tgggtggaatg aagggtgangg ctgaccgaga tgagtcctct ccgtatgcag 240
ccatgttggc tgcccaggat gtngcccaga ggtgcaang 279

<210> 4235
<211> 298
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559201H1

<400> 4235

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gaaactggag aaagagaacg cntcaaagag ttgctgagag ctanattaat tgagtgcggc 120
tggaaggatc agttgaaggc aactgtaaa gaggtaatn aagaaaaagg actagaacac 180
gttactgttn catgacttgg tggctgaaat cactccaaaa ggcagagccc tggtagctga 240
cagtgtaaag naggagctcc tacagagaat cagaacttcc ttgntcagca tgccagtc 298

<210> 4236
<211> 290
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559203H1

<400> 4236

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agcgctggct ttaattaggt ttgcaacgtg ctgcctcagc cccctgcagg caggcccagg 120
taggactncc tggaggctgt gcttttaact ttgtaacaga catttccgaa ccaaaggctg 180
ctggggtttgc atgtttacag gctccaccct agggccagtg tcagagctgg ctttggggag 240
ctgggcaagg aagaggaggc ccagcccaga ctcttctctg cctttctcaa 290

<210> 4237
<211> 288
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559204H1

<400> 4237

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ctgcgtggcg tcggccagcg tgcacattcg catggccttt ctcaggaaag tctacagcat 120
cctgtctctg caagttctcc taacgacagt gacctctgcc ctgttctgt atttcgaaac 180
cttgcgctact tttgtccatg acagccctgc ctttaatttg gtgtttgctc tcggatctct 240
gggcttgatc tttgcgttga ctctgcacag acacacgcat cctctgaa 288

<210> 4238
<211> 288
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559205H1

<400> 4238

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ggcctgtggg gaaaggtgaa ccctgatgat gttngtggcg aggccttggg caggctgctg 120
gttgtctacc cttggaccca gaggtacttt gatagctttt gggacctgtc ctctgcctct 180
gctatcatgg gnaaccctaa ggtgaangcc catggcaaga nggtgataaa cgccttcaat 240
gatggcctga aacacttga caacctcaag ggcaccttg ctcactctg 288

<210> 4239
<211> 291
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559206H1

<400> 4239

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ataatttgca aaatggtgaa tgaatacaag gaaattgtnc ttataaaagg attagaggat 180
atgaaggncat atgcatttag aaccatcaag tccttactaa gaaaagaact anacctaact 240
anaaaaatgc angatgatta tgacaggntt caactggctg acctgttgga g 291

<210> 4240

<211> 292

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559208H1

<400> 4240

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cctcttcncc tcttgctcac agacccatca cacacacca gngcgtctca ggatggagct 120
ctgatcgnea cctggcncaa gaggcaggct atntgctnac tcatgcgctt ccgctccacn 180
nggntctaca caaccagnct agaagcctct gtcacgagcc cccaagtaag cggcttgga 240
aatccagcog gattccagaa tcacattctc tgggcaccn ctcttctcgn cc 292

<210> 4241

<211> 291

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559209H1

<400> 4241

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tattagctgt tagtgctgtt tacatatcca agattagctt ggccattgct ataagatatg 120
cattgacaag gcaagcattc tccattacac caaacgggcc tgaagtcttc ctgcttgatt 180
accctagtca tcaacggcgt ctgttacctt tacttgcaaa ggtatatgca atgagttttg 240
ccgcaaata gctcaaaatt atgtatgtca acagaacgcc caagtcaaac a 291

<210> 4242
 <211> 287
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559210H1

<400> 4242

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 ctgaaggagt caggacctgg tctggtgcag ccctcacaga ccctgtccct cacctgcact 120
 gtctctgggt tctcactaac cagctacaat gtgcactggg ttcgacagcc tacaggaaaa 180
 ggtctggagt ggatgggagt aatatggact ggtggaagca cagattacaa ttcagctctc 240
 aaatcccgac tgagcatcag ctgggacacc tccaagagcc aagtttt 287

<210> 4243
 <211> 289
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559212H1

<400> 4243

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 caatgcttct tgcaccacca tgccctcacc actccaacca gagcttcatc acagcgctta 120
 gttgtgagca ccaaaccaaa ccacattggt tgcaaggcac aaaagcaggt tgtccaagag 180
 ggtgaggaca ctactaacat tgtctctcgc aggttgcccc tcaactgttct cattggtgct 240
 gctgctgttg gctctaaggt tgcacctgct gatgctgcct atggagaag 289

<210> 4244
 <211> 289
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559213H1

<400> 4244

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cttccccacc accaagacct acttctctca cattgatgta agccccggct ctgcccaggt 180
 caaggctcac ggcaagaagg ttgctgatgc cttggccaaa gctgcagacc acgtcgaaga 240
 cctgcctggg gccctgtcca ctctgagcga cctgcatgcc cacaaactg 289

<210> 4245

<211> 289

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559214H1

<400> 4245

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 ctggagttcc agggccgcgt cctggaagac tggtttgact ttaaactcta tggcatccaa 180
 gatagtatca cgatcatcct atccaggaag agggagggga aagccccatc tgcgcccagc 240
 tagcttcctc tgctctttt gctatctcat cctaaagtca gcctagtca 289

<210> 4246

<211> 290

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559215H1

<400> 4246

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 tttgagcaag gaggaggaag actcattgct agggcaagtg gaaatatgga ggtacatgac 120
 atgcttcacg gactccgtgg ccttgaaagc tgtcatagag ctctgtatag cggacatact 180
 agaccgttat ggtaaaccac tatccttgct gcaaattgtg gagaacatag aagacgcacc 240
 ctccccagat gcctctcttc tccagagagt cctgagagt atggtgcgca 290

<210> 4247

<211> 100

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559217H1

<400> 4247
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 tatgtcanna ccaaggatnc ctacaaactg cagcgcaggg 100

<210> 4248
 <211> 289
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559220H1

<400> 4248
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 ccaaagtgtg catcagggcn tccattgccg ttgagcaaca aanttcccag actaagggtg 120
 ctctcctcag aattggtacc agaggaagtc cactagctct ggctcaggca tatgagacca 180
 gagacaagct catggcatca catgcagagc tagcagaaga aggggctatt cagnttgtaa 240
 taataanaac nactggtgac aanatactat cacagccact tgcagacat 289

<210> 4249
 <211> 259
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559223H1

<400> 4249
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 gatgctactg cccccgggc ccggcccgct ggtgcggtca aaaagagtag ttctaaggct 120
 aaaaagctga ggaagagtaa gccccattgc agccggaacc ctgtcctggg gagaggaatc 180
 ggcaggtatt cccgatctgc tatgtattcc agaaaggcct tgtacaaaag gaaatactct 240
 gctgccaaga caaagggtg 259

<210> 4250
 <211> 130
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559224H1

<400> 4250
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 aanaggctta atcagtctgg nnnagcnaga ctggagcaca ctttgtncctg gttcgggtgcg 120
 gatnaggttg 130

<210> 4251
 <211> 285
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559226H1

<400> 4251
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 aaaagcctga gctgatgtga agtgggaagc ttcttgagc ctttgttcct gatgtctgtc 120
 ttctgtctgt agttctgcat atgtgttctc agtgtagtg tcaaggtttg ctgtcctttg 180
 cattacagtg ctgcggactc ttgtggtttt cctaagacaa tagtgtactt gattttgtat 240
 tcggagagag ctctcgtaca gcggaccctt agagaatgtg gttgt 285

<210> 4252
 <211> 190
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559227H1

<400> 4252
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 taatttaaag taaaaacaag caaagattaa accttgtagc ttttgcataa tgaattaact 180
 agaaaatcct 190

<210> 4253
 <211> 288
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559228H1

<400> 4253
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 ggctgcctgc tgctctctaa ccagagtgtc gctggctggg gctccttggg acaaaatgca 120
 ctcttgttcc tctatagtga gcctctaaga ggagtgccat taaagcagtt ctagctgggtg 180
 agaaggtggg ccctgttctt gcctcgagag gatgtcgggt gttaccgctg agggacagcc 240
 accctctggg gaaagttggg anaaacacag cgcagnggg tgcctctt 288

<210> 4254
 <211> 288
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559229H1

<400> 4254
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 gctgctggag aagatcgaat cgaaacgcga ataagtttct ntctctctcg ttggacgaat 120
 aatggttctg aggaggaaga agatggagca gcgcttcacc ttcttctgct gttgatttca 180
 tggccacctc ccagtcccag catcgctgctg ttttcgttgg gaatataccg tatgatgcca 240
 cagaggaaca gcttatcgan atctgccaag aggttggccc agtagtct 288

<210> 4255
 <211> 289
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559230H1

<400> 4255
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 gcaaagaaga cganaaagtc tctggagtca atcaactcta ggctccaact tgttatgaaa 120
 agtggaaagt acgtgctggg gtacaaacag actctgaaga tgatcagaca aggcaaagcg 180
 aaattggtta tcctcgccaa caactgtcca gctttgagga aatctganat agaatactat 240
 gccatgttgg ctaaaactgg tgtccatcac tacagtggca ataacattg 289

<210> 4256
 <211> 289
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559231H1

<400> 4256

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 gaggacttat tcttggctgc agttcctagg cccttcctct aagaaacaag gcagactcag 180
 gaagcaatca tgggtgctctc tgcagatgac aaaaccaaca tcaagaactg ctgggggaag 240
 attggtggcc atggtggtga atatggcgag gaggccctac agaggatgt 289

<210> 4257
 <211> 292
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559233H1

<400> 4257

aaataatcca acattcattc ttatataata tatatattgt gagttcatga gtgattgtta 60
 ttctttgaag cacggacact ccagtccttt gccttgtttg gtgtttgaca cgacaccgac 120
 gcccgtgtct gggttgagtt tgatgtgttt gacgggtgtt cacgtgtccg tgtccggtgt 180
 tcgtgtcagt gtcggtgctt catagttgcc gtttgctaca acgaagagat actgagtcaa 240
 tttctcatag tatatttata attggtgttt gctacaacga agagataatg tt 292

<210> 4258
 <211> 289
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559234H1

<400> 4258

gcgagctgag cagttgccat ggtcctggga tctgctgcac tattegtctt gagcctgtgt 60
 gtcactgagc tgaccctcca tggctgctga cacctgcccga gaggtgaagg ncctggatct 120
 ggagggctcc aacaaactca ccatacctca aggctgccct ggcttgcttg gagccctggg 180

gccaaggga gaggtggtg ccaaaggaga tagaggagag agtggccttc ctggacaccc 240
 tggaaaggcg gggccaactg gacccaaagg agaccgagga gagaaggga 289

<210> 4259
 <211> 286
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559235H1

<400> 4259

anacctncat tnntcncatt cacggctata aatnatctca aaaacccttc canaccctca 60
 cttcgcttc cgcttcggc gncanatcgn gtatnnttct ctgttctatt cctacgatgg 120
 agttttnggg tgccgaggtt aaggttggtg agtctgttaa ggtagatcca gccgaattcg 180
 aggcattcat acacctttct caggctgctc ttggtgangc aaagnnagan nnatcaaattg 240
 aaccagttgt tctctacttg anagttggtc aacagaaatt tgtctt 286

<210> 4260
 <211> 104
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559236H1

<400> 4260

tctcctgna ntngtntnng tggagtgtcg aacacaaatg gtgagaattt agaattggtc 60
 ccncttatta tcantattga aattaagtgc tacttaattc natt 104

<210> 4261
 <211> 286
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559237H1

<400> 4261

cgccggcaag atgggtaagt gtcgtggtct ccgtactgcc cggaagctcc gcagtcaccg 60
 acgggaccag aagtggcatg atanacagta caagaaagcc cacttnggca cagccctgaa 120
 ggccaatccg tttgggggtg cctctcacgc aaagggaatt gtactggaaa aagtaggggt 180

tgaagccaaa cagccaaatt ctgccatccg gaagtgtgtc anggtgcagc tcattaagaa 240
 cggcangaag atcacagcgt tcgtgcccaa tgacggttgc ttnaac 286

<210> 4262
 <211> 286
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559238H1

<400> 4262

gctgggaatc tcagaactgt gtacttccag ctgggttgag gaaggcagag aggctaaggg 60
 atgctccnca gagggaaagt actgcccttg tttcataaat caccctggcc ggaaaaaatg 120
 agccccaccg gaaccttgca aaactttccc tttgtgtttg tctgctcgtt gatattccag 180
 ctcactatgc aagttgtgag gacaagaggc cagaggccaa ggacccagga ggctccggca 240
 ggacgttccg tagctgtgcc tcatccctgg cctgagttc gataaa 286

<210> 4263
 <211> 288
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559240H1

<400> 4263

aaagaaactt cctacggcct gtctttcttc aagccacagc ctgggaactt cgagaaaaac 60
 ttctcggtaa acttatataa agttaccggg cagttcccat ggagctcact tcgggagacg 120
 gacagaggag tgtctgctga gtacagtttt ccactatgca agaccagtca cactgtcatc 180
 tgggaggggtg tgtggcgga actgggctgn ctgcgcgga ctgcgtcatt cgctgtgcgg 240
 aaggaaagtg gacactcatt gaagtcgtct ctctcgcgtg ccatggtc 288

<210> 4264
 <211> 286
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559241H1

<400> 4264

gcctgcaaag gttaattaaa aactgttttg cagccaacaa gcgccgggct tcagtgattt 60
aataatggaa tatttattat tctgttatgc aaatacattt attgggtaac tgctttgggt 120
gagtatgtct tgctcagcgt ggctactatg tatccttcta gaaattttat aagatgaaaa 180
gagatttttt ttaaataaac atcgtgtcat tttagacggg gctctaagcc tccatctttt 240
ttttttcttc cacagcaatt gaacaagaga agcaagctgg cgaatc 286

<210> 4265
<211> 283
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559242H1

<400> 4265

gaaaattcag tgctgaaaca tggcttcggc tactctctct gtagccaaac cagcccttca 60
ggcaaatggg aaaggcttct ctgaattctc tggcctccga agctcatcag gcttccttcc 120
cttttctaga aaatcttcag aggatttcca ttctgtcatt gccttccaga cctatgcagt 180
tggaagcagt ggaggatata agaaggggtg gacagaagca aaactgaagg ttgccataaa 240
cgggtttgga aggattggaa ggaattcttg aggtgctggc agg 283

<210> 4266
<211> 286
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559243H1

<400> 4266

ggcttctgan atagtgaanc taacgaagna aagatgtcgt ccatgcngcg cttnnctnnc 60
tcgtntcttc agccccgaag gcctcaattc cctcgcccat tcannnnnnn nnnnnnnnnn 120
nnnnnnngag cctccgcgcg cgtcgtggcc gtctctctct ccgaccgctc ctttctccgg 180
aatgctctga attccttctt ctcttctgac ctatcaatgc ctctctgggg ttactgagt 240
ttggccgaca gtgggggttc cgtggttgag tcaaaaaccg gaactt 286

<210> 4267
<211> 288

<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559245H1

<400> 4267

aaaaccctct ctttctctct cttccaaaac ctaattttca ttttttctct tcaaacaaat 60
tttcaaaatg cgtgagatcc ttcacatcca ggggtggccaa tgcggcaacc agatcggcgc 120
caagttctgg gaggtggttt gcgcggagca cgggatcgac cccactggaa ggtacggtgg 180
ggactcagag cttcagctcg agaggatcaa tgtctactac aacgaagcca gctgcggccg 240
gttcgtgccg cgcncgggtt ccatggacct cgaaccgggc accatgga 288

<210> 4268
<211> 287
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559246H1

<400> 4268

gccatcaggt gagccaagat ggggtgcatac aaatacatcc aggagctgtg gaggaagaag 60
cagtccgacg tgatgcgctt ccttctaagg gtccgctgct ggagtagccg ccagctctct 120
gcgctgcaca gggctccccg cccaccccg cctgataagg cgcgaaggct gggatacaag 180
gctaagcaag gttatgtcat ttacaggatc cgtgtccgcc gcggtggtcg caagcgccca 240
gttcctaagg gtgcaacct cggcaagcct gtccaccacg gtgttaa 287

<210> 4269
<211> 289
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559248H1

<400> 4269

cgccatcttc cttgagactc ctgcgccatg agagcgaagt ggcggaagaa gagaatgcgc 60
aggctgaagc gcaagagaag aaagatgagg cagaggtcca agtaaaccat cttgtgcacc 120
cacgaagcct gcgggagcag aagtaaggga tgctgaagcc cggaacaagt ggttggactg 180
tatgctgctg tcggtaataa gtctcagtag acccggaatg tcacctcgcc gagatcagct 240

gggaaaatga ctacctncct cacaacccaaa acagtcccgc tggccctct 289

<210> 4270
 <211> 288
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559249H1

<400> 4270

caccatgaag ctttgagtga agctctgcct ggggacaatg taggcttcaa cgtaaagaac 60
 natanantca aagacgtag acgtggcaat gttgctgggg acancaaaaa tgaccacca 120
 atggaagcag ctggcttcac tgetcaggtg attatcctga accatccagg ccagatcagt 180
 gctggctatg cccctgttct ggactgccac acggcccaca tagcatgcaa gtttgccgag 240
 cttaaagaga agatcgatcg tcgttctggt aagaagctgg aagatggc 288

<210> 4271
 <211> 287
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559250H1

<400> 4271

caaaaactcc cgttttctct ctctgttttt ccatggccat ctgatcaaac tnttcttgat 60
 tctctctctc agtttttgct attctgagtg atgggtatgc cctgccgctg tttccacacc 120
 tcccacatca ctgaaatcat catcaccagc ttcttccgcc acaagtctta aattacaaca 180
 atttccctca attattcatc aaccaaccac cttaatagcc ttttccaatg gttccttaaa 240
 gatccaactt ggtcggagta aacatggcgg ctagtggaag ttccttt 287

<210> 4272
 <211> 284
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559251H1

<400> 4272

agagacagag acatagagac tatcttgtgc tagctatgat ggcggtttat gcctataatc 60

ttggtacttg gaaggactga aagccaagga cagtgtaggc taaaacaaa cagacctttc 120
 ttggttaactg agaacagagc tttccaaggc tagccctgtg ctgagcctga ggtaaagtgt 180
 actgagaaca gagctttcca aggctagccc tgtgctgagc ctgaggtaaa gttaacttca 240
 accacatctg gtggctgagg actgggaatg atggttctca aagg 284

<210> 4273
 <211> 276
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559252H1

<400> 4273

gtttgttggt agctataagc tagtttatcg tgaggagaat atgaagttgt ttgttttctt 60
 tgttgctgca gtagttttgg tagcatggcc atgcatggc gcaggctacc aaagggtccc 120
 tctccgaatg aaaactggct atggtgagcg ttcttcggag gtaaaatgcg caagtttttag 180
 gcttgctgtg gaagcacaca acatccgagc ctttaaaacc attcctgaag agtgcgttga 240
 accaaciaag gactacatta atggcgaaca atttag 276

<210> 4274
 <211> 94
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559258H1

<400> 4274

aataagtggg ggcttggttag ttattcccggt ccattttctct aatgctgcct aataatttaa 60
 aggagttaat ccaggccaat gaatacaaaa aaaa 94

<210> 4275
 <211> 214
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559259H1

<400> 4275

gacatgaaag tgggaagaga ctagttggga aaataaagggt tcgtcaggag tcggaaggag 60

gtaagatata ggaactgcac atgagcacac tacattgtat acatgctgga actgtcaaaa 120
 gtgttctaaa acccctacaa atatgccgta ctaagtcact gaattgtata agtgggcaaa 180
 tgtatactat gtaaactatc aataaagaat ttaa 214

<210> 4276
 <211> 284
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559260H1

<400> 4276

aaagacccat gaaaatcctt catnccggtg actgaagggt gagatgcaca gacagttgcc 60
 tggaaaatac canaatccta caaggggaaa agcaaaattg ttttgcttca ctctttatgg 120
 ggaaggggtt gaatagcttt tcttagttgc tcaatagatg gtgtcaacac cgtgtcacag 180
 gccggcctgt ggggtgtgggc agtgctgggg agctgatttc catgaagtat aactggggag 240
 aggcttgtca atgccaacac tgtgggctct tgtttgactt gggg 284

<210> 4277
 <211> 286
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559261H1

<400> 4277

tttccctcgt ggtccatag atatgaggga acctgggtatt ccatatcaga atcttaatgt 60
 ccaacgatct cctcagatcc actctcagtt gaatcacagt ggtccaatgt ttaaccaact 120
 ggattctcat cctctcata taagttotta tatgaagctt ccaactcctg agagcatggg 180
 tcatcatgac tcaccaccaa atcatcaatt tccaggaaat atgcttcgtc ctcttttcca 240
 tcaaacaaac aatggactag cagggtttga tcctcccggt catcat 286

<210> 4278
 <211> 286
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559262H1

<400> 4278

gatctcttgg ccatcaattt gtcctccatc catgtgtttc agtgccttct ctgcttcac 60
cggattctcg aattccacgt acgcatagcc tttggataga tgaggatgca tcctttccac 120
aggcatgtca atcatttttaa ttttcccgt ahtagaaaat atttccatga tatgatcctt 180
ggtcacattc ctggtgagcc tcccaatgtg cactttggtg ggtttagggtg aagggctccg 240
ccttttctct tcttnttcat ctcttttagg tggttnggat ttggag 286

<210> 4279

<211> 286

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559263H1

<400> 4279

atccaccttt tggggagacc accggagata tgtacggacg gagtgattct tacgaatccg 60
atttggcgct totggattcg attcgccgcc acttgctggg agagtccgaa ttgatattcg 120
gagccccgaa tttcggttcg ggtcggagct ccagtttcag cagcttggac tcgtgtttga 180
gtgatgattg gggagagctt ccgtttaagg aggacgattc agaagatatg gtgttgtagc 240
gcgttctccg tgacgcagtt aatgtggggg ggggtcccatc cctcga 286

<210> 4280

<211> 289

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559264H1

<400> 4280

gaaaagcaga ttaatacttt tgcaaagaag gcaaagatg gatctttatc aattgatgag 60
atggctggag gcactcttac aatatccaat ggtgggtgtt atggaagcct tttgagacct 120
cctattatca accctcctca gtctgcaatc ttgggtatgc attccatagt gagccgtcca 180
acggttggtg gaggaatat tgtccaaga ccaatgatgt acgtggctct aacatatgac 240
cacagaatta ttgatggaag agaggccgtg ttctttctgc gacgcatca 289

<210> 4281
 <211> 290
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700559265H1

 <400> 4281

 gctttccggt ccggttcaaa aatcgcgaa gcatttgacg ccgcagcaac gaaaacacga 60
 aaataactgc acagcataag cttgtagaat tgtactgcat cgcanagccc catgttgatc 120
 gtgttcattt gcatcttctt tttcttcac tttctttaca agttcctcat cgcttatggc 180
 gatttcactt tgatgtctaa gaagcaacct aagcgccaag agattgaaga taagggtgtt 240
 tggattactg gtgctagccg tgggaattggg gagattctgg ctaaacagtt 290

<210> 4282
 <211> 286
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700559266H1

 <400> 4282

 cagaaagcaa gctcatccta gagttttaa aatggcagca gctcctcca tggctctctc 60
 ttccccatcc ttgggtggca aggccgtgaa gctgggccc tcagcccccg aagtcgggag 120
 ggtcagcatg aggaagaccg tcaccaagca ggctcctcc ggaagcccat ggtacggccc 180
 agaccgctc aagtacttgg gccattctc tggcgagccc ccgtcctacc tcaactggcg 240
 gttcccaggt gactacggct gggacactgc tgggctttcg gccgac 286

<210> 4283
 <211> 284
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700559268H1

 <400> 4283

 gtactctcgc catccaccgg agaatgggaa gcccaacttc ctcaactgct acgtgtctca 60
 gttccancca cctcagatag aaattgagct actgaagant ggaaagaaga taccaaatat 120
 cgagatgtca gatctgtcct tcagcaagga ctgggtcttc tacatcctgg ctcaactga 180

attcacaccc accgagaccg atgtatatgc ttgcagagtt aaacacgtca ctctgaagga 240
gccccaaaacc gtcacctggg accgagacat gtaatcaagc tcta 284

<210> 4284
<211> 285
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559269H1

<400> 4284

catgaatttg gaaacgcaac caggaacggc gtcgtattgg tgctacagct gcacccgttt 60
cgtgcacctc tctgtccaaa gcaccatcgc ctgccccac tgtcaaagcg gtttcgtcga 120
agagatccgt gccggcgccg gagccgaagc ctcgccacgc catcgactaa gtcctttccc 180
cgatgatcct cttttgtctc ggcgacaggg cttccgccgc cgtaggagag aagcttccgg 240
caaccgctcc ccgttcaacc ccgttatcgt cctccgcggc cccgg 285

<210> 4285
<211> 285
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559270H1

<400> 4285

cacacatctt ctcanccag atggggaacc tatagccnng cnanatntng ntaanacnaa 60
agtccaaatt gatcaactan tggcttnnan nggggttnct nactggaatg tggatgaggg 120
gttccttaca ggancagaaa tgantcaaag acagcngtat taccnaaanc catccnccac 180
cttgggtgnc anctcncaan tgccgagnac ctagagcata ctgcatagcc tgcaggcagc 240
tcaacaggnt ggaggctgnc cnntccangc acctacccca gttgg 285

<210> 4286
<211> 284
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559271H1

<400> 4286

gcctaaagcg caactaatgt tagtgaaccc cactttcgcg gtaggaaggc tttttgtgtg 60
cagacaagtc cttcttttga atttatgang ccacaaaaat gagtcccgca atgtgcatgt 120
ggcctttaac aatgaaagca gagtgactgg gatagtgaca agtatctgta atcccaggat 180
tgcaaggggtt ganatgggag ggtcacaggc tcanagtgga gactaaaagc atgggaatgc 240
tttaacaagg aaagggaaga tgagaatcca tctgtagcag ccca 284

<210> 4287
<211> 286
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559272H1

<400> 4287

ctcttttget gcatcagagg agttgtaaat taagagcatg gctgcacaag ctcttgtatc 60
atcatcttct cttaccttct cagcggangc tgcaagacaa agtcttggan caagatcact 120
ccaatctcca ttgggttctt ccagaaaagc ctcttttctt gttaaggcag ctgctacccc 180
ccctgtcaag caaggatcag acagaccttt gtggtttgca tcaaagcaaa gtctttctta 240
cttgatggc anccttccgg gtgactatgg atntgancct ctggga 286

<210> 4288
<211> 282
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559275H1

<400> 4288

accaagtctt ggagcgttgg tacccttctg tagaagaagg gaacaacaag ggcattgtgg 60
tgcttgtcac gagtacagaa gaaggagcag tcaactgggtg cccggctttt gtgaagctg 120
tggtgggaaaa gatccttgat gctaccgtct cagagaaact cccagtattg gctacggatg 180
agaagtacaa tgaagctatt tttagcactg ctaaagggt agcggctgcc atagatgggc 240
tttcggatcc tgggtgggcca acagttaaag acaacaaacg tg 282

<210> 4289
<211> 263

<212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559276H1

<400> 4289

attatgagga ggctgagaga tgganccgtt aatctcatcc gngctcaaa gcttgatgcc 60
 aanattgact ccgaaactgg agcagttatc atggaaccta atcatctaaa tgtgtatgaa 120
 caactgatag accataccaa ggccttaac ggacgcactt acaagttggt tagtcaactt 180
 ctggaacatg cacaagctca aacaacacga tgattgtgta ggtagatcaa tgagagtatt 240
 tgtnttatct atccggatgc atc 263

<210> 4290
 <211> 287
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559280H1

<400> 4290

ctgtgttcct gtttttgttc ttcgatggcg gcaacctcaa catcactggc ttctcaactc 60
 tacattggcc tgcgcgcgcc ctgcctcaag ctcgattctt tcaattctca atctttcnct 120
 ctcttcgacc ctaatcttcg cctatccctc tctccacca aaccctcacg cgccgtcatc 180
 gccatggccg gcaccgggaa gttctttgtt ggtggcaact ggaagtgtaa cgnaacaaaa 240
 gactcaatca gcaagcttgt tgctgacttg aacaatgcaa aattgga 287

<210> 4291
 <211> 130
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559281H1

<400> 4291

cacaggtgta gaggtcagag ggtnnactg cggcnattagt tctttccttc ttcctttacc 60
 tgggtccngg ggancaanct cangttgcng ccttgnatag caagtgcctg ggcctgcgtt 120
 ctagatcgcg 130

<210> 4292
 <211> 79
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559282H1

<400> 4292

ctagctagta cttaacataa tgcagtgaga ttcacactcc caacgnttcc tttttctccc 60
 ttaantatct tcntncatg 79

<210> 4293
 <211> 281
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559283H1

<400> 4293

ttaagatgac ttaagtttca tcttaaattt ntttcattcc ctgtagttaa ttctgcatgt 60
 actagtctta gaagtaaaca caagctaaaa caacttgaca ggaattcccc aagtggcttg 120
 ttttccaaag tactgagaac aaaaccctaa gttcccctag gtcttgtaac tcagcaaggc 180
 ttgtgaatgt gaaaataaca gtgcccaatc acattctgct ttaaaaaggt aaatacagat 240
 gagatanaan gaaananaaa aganacacgn annannngaa g 281

<210> 4294
 <211> 283
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559287H1

<400> 4294

ctataagcta gtttatcgtg aggagaatat gaagttgttt gttttctttg ttgctgcagt 60
 agttttngta gcatggccat gccatggcgc aggctaccaa aggttccctc tccgaatgaa 120
 aactggctat ggtgagcgtt cttcggaggt aaaatgcgca agttttangc ttgcgtngaa 180
 gcacacaaca tccgagcctt taaaaccatt cctgaagagt gcgttgaacc aacaaaggac 240
 tacattaatg gcgaacaatt tagatcagac tctaaaacag tta 283

<210> 4295
 <211> 263
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559288H1

<400> 4295

gctcgtctgg tgaccgtgat ctttctgggtg cttgtntctc tggccgtcgt gcttgccatt 60
 cagaaaaactc cccaaattca agtgtactct cgccatccac cggagaatgg gaagcccaac 120
 ttctcaact gctacgtgtc tcagttccac ccacctcaga tagaaattga gctactgaag 180
 aatggaaaga agataccaaa tatcgagatg tcagatctgt ccttcagcaa ggactggtct 240
 ttctacatcc tggctcacac tgg 263

<210> 4296
 <211> 185
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559289H1

<400> 4296

attcatttga tactgtgaca tgttccttg attatacttt gttaaagtag acctgtccat 60
 catggatctg gctgccagca gccatgctgc aaaatcnttg atgacagtcc ctgcttggtg 120
 agtctctgct ctgagactag agcaatcaca ggacactggg gtgtggaagt gccctgtcac 180
 atcat 185

<210> 4297
 <211> 100
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559290H1

<400> 4297

tgngatctgt tanggtgctc agaaggtant ggaaccgggc tcccgggaagt atggagtctn 60
 ccntatnggg acacagtnta ccccggtgtca gcnactcccg 100

<210> 4298
 <211> 285

<212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559293H1
 <400> 4298
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 ccaatctgaa atccagaata aagattcaga gatccatcaa ttacagcagc agattgagga 240
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<210> 4299
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 <223> Clone ID: 700559294H1
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 gcagtcacag ctttgatagt ttttaaaatt caccagtgtt gagaaagaag tgagttttaga 180
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 <223> Clone ID: 700559295H1
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 ttgttttcca aagtactgag aacaaaaccc taagttcccc taggtcttgt aactcagcaa 180
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287

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<211> 303

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559301H1

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gccaaagatcc aagacaagga aggcattccc cctgaccagc agagactgat ctttgctggn 180

naacagctgg aggatggccg cacctgtccg actacaacat ccagaagagt ccacttgcac 240

tggtgctgcg tctnecgggt ggnatcatcg agcngtcct tngtcagntg cccanaagta 300

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<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559302H1

<400> 4302

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tgtgggaaat atttttaaag acatgaaacc caagaagaca gtgcagtcgt taatgtttcc 180

tttattggte tgtagtaact tcaagttcat tctatgggac atgcttctgt cacagggctt 240

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<210> 4303

<211> 300

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559303H1

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 cccacctgaa ctctcccagc atgcaccctg ctgggcaccc tcacttgctc tcaggtaggg 180
 cagggccctc actggggtag atgctaccac caccagcct agggacgatg ggccctgagc 240
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<210> 4304
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 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559307H1

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 attactttga ctgagaccg actaatctgg tacaaaatct aaggaaagat ggggaagaagc 240
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<210> 4305
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 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559308H1

<400> 4305

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 gtccgttttt aagaaacatc aatgaaccta caaacttctc tttctcctca actaaantct 180
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<210> 4306
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<212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559311H1
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 agttgctatt gtgcctggtg gaggtgcggg cactgagcat gcaggccaag gagtatctgt 180
 accataagca tttgggcaac gagatgcccc gcaacaacct tctcattgag atgctgcagg 240
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559312H1
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 aacagatttt ctctgtggat ctgaagaagg gggaggtcgt gtggcgtctg cccgagtttg 240
 cagacttcgc gtactcggac tttcagagcg ggctgatgag catctccatg atcaga 296

<210> 4308
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559313H1
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 ttggtgctgc tgctgttggc tctaaggttg cacctgctga tgctgcctat ggagaagctg 180
 ccaatgtgtt tggaaagcca aagacaaaca ctgacttcct tccatacaat ggggatggat 240

tcaaactctc aattccctca aagtggaacc caagcaaaga ggttgagtac ccagg 295

<210> 4309
<211> 297
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559314H1

<400> 4309

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gttatcatga tgggtcaaacc aaaaatacag ttcatccagg gaactgatga acaaacaata 180
cccgatgtga ggctgaccaa atcaagggat ggaacaaatg gcatggctat cttcacattt 240
gatcaaccct cagtttttca ttcttcgggt gaaataggcg atatcactgg attttat 297

<210> 4310
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<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559315H1

<400> 4310

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cangccagcg gttcaaaacc cggaaaaggg atgaaaaaga gaaattcgaa cccacagtct 180
tcagggatac acttggtccag gggcttaatg aagctggtga tgaccttgaa gctgtagcca 240
aattcttga ctctactggc tcacgactag attatcgtcg ctatgcagac acactctttg 300
a 301

<210> 4311
<211> 299
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559316H1

<400> 4311

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gttcaaccca gtccaaccaa acattatgct ccaaaaagat gctagtattt catcctctgg 180
gggtgttaciaa ctcaccaaag ttggcagcaa cggcgtgccc acctcgggat ctctcggtcg 240
tgcnttttacg ctgccccaat ccagatttgg gacagcgaaa ccggcaagta gccagtggg 299

<210> 4312
<211> 304
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559317H1

<400> 4312

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caatcacatc aatgtagagc tgantcttct tggaaagaaa aagaaaaggc tccgtgttga 180
caagtgggtg ggtaacagga aggaactggc cactgtcaga accatctgca gtcagtgttca 240
gaacatgatc aagggtgtga cactgggctt ccgttacaag atgaggtctg tgtatgtcga 300
cttc 304

<210> 4313
<211> 302
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559318H1

<400> 4313

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tgcggganca gaagtaaggg atgctgaagc ccggaacaag tggttggact gtatgctgct 180
gtcggtnata agtctcagta gaccggaat gtcacctcgc cgagatcagc tggganaatg 240
actaccttcc tcacaaccaa aacagtcccg ctggccctct gccctggacc tttggcattc 300
tg 302

<210> 4314
 <211> 101
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700559319H1

 <400> 4314

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<210> 4315
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 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700559320H1

 <400> 4315

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 ggcgcgnctg acttcacagc tggtcaggag tgntgttccc tgggcagggtt tcagtcgntc 180
 ctggcctggc tctggggtga ttggaagcca tgcttttcga cncctttaca gtttgcagcc 240
 tgcaagccca agtcgggctg cctccctccc tggtnagaag gnccattaga gnt 293

<210> 4316
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 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700559323H1

 <400> 4316

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 gtcaggaggg catgccacgn agccagttca tcaacatgnt gntcatcntt ncagtggcct 180
 ttatnaccgt gctcatcctg aaggcttaca tgttcaagtg tgtttngact gctacagatt 240
 cntgaagcac atggattcgg ccgtggagga cagcagttnc nagctgttcc tacag 295

<210> 4317
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 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559324H1

<400> 4317

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 actaggagag atgtggaaca aactgctgc ggatgacaag cagccctatg aaaagaaggc 180
 cgccaagctg aaggagaagt atgagaagga tattgctgcc tacagagcta aaggaaaacc 240
 tgatgcagcg aaaaaggggg tggtaaggc tgagaagagc aaaaaaaaaa aaaagg 296

<210> 4318
 <211> 294
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559325H1

<400> 4318

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 gcttgtcagt ccatctctga attggtgtta agaaagactg taagaaagac atatctcggt 180
 cgccttcaac cttagantgc aagcttttca agtgcaacct ctcttggttg cctcttttgt 240
 ccatcagtgg tattttattt aattgctcaa gagcatgcag caaaacccca tgct 294

<210> 4319
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 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559326H1

<400> 4319

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tanttttaaag taaaaacaag caaagattaa accttgtagc ttttgcataa tgaattaact 180
 agaaaat 187

<210> 4320
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 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559327H1

<400> 4320

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 tgcgtatcaa gagcgccctta agaattggga antcagagan cgatagcann ctaggganta 180
 tgaganggag gcggaaagag aagaagagag cagaagagaa atggctanag angctacacg 240
 attaanagat tcc 253

<210> 4321
 <211> 292
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559328H1

<400> 4321

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 ctcttggtcc tctatagtga gcctctaaga ggagtgccat taaagcagtt ctagctggtg 180
 agaaggtggg ccctgttctt gcctcgagag gatgtcgggt gttaccgcgt agggacagcc 240
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<210> 4322
 <211> 293
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559329H1

<400> 4322

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 tgcagcagat cgcgatgtcc ctccgcggga aggctgtggt gctgatgggc aagnacacca 240
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<210> 4323
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 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559330H1

<400> 4323

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 agtagcattg tgggacctag tactaagagt attcctggta gatttgactc acattcattc 180
 taatagtga ctcttttctg ttttgctct ttagtctga tctcttttg ggcattctgg 240
 acaagttgga cctgtcatg tttttcaaat gtccttcccc agagtctgct aat 293

<210> 4324
 <211> 297
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559331H1

<400> 4324

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 agtcttacac aaagtcctaa aacagctgga agaactgttg agtgacatga aggctgacgt 240
 gacacggctc ccagccacca tgcccgcac cccccagttg ctgtgagggt acagatg 297

<210> 4325
 <211> 302

<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559332H1

<400> 4325

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tacttggeta ccacggcacg tgccgatgct ccccttatg ggattgatta ccctccaagt 240
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tt 302

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<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559333H1

<400> 4326

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gggaggtcan agacaatgct gatttgcttt gacaagggca gaaagacatc ttccaaatcg 240
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gaa 303

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<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559334H1

<400> 4327

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ccttcagggtg agtgggtcca cacgcttgaa tgtggggagt ggaagcaggg tggcctcagt 180
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cagccgtagg gcagtgcctt cacttggtgc tgcgtggttg gccatggctc ttttggt 297

<210> 4328
<211> 292
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559335H1

<400> 4328

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<210> 4329
<211> 293
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559336H1

<400> 4329

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gacagtgttc atggacactg gaagcatcac gatgtcaccg ttaaggacga gaagaccctt 240
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<210> 4330
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<212> nucleic acid
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<223> Clone ID: 700559338H1

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 ccatctgcct ctagecctgc ctccctcaag actgtggctc tttctccaa aaagaaggct 180
 gcacctccaa aaaaagctgc agctgctgct cctgccaatg atgagcttgc caagtggat 240
 ggtcctgaca gaaggatctt cttgcctgag ggtctcttgg accgatctga gatcccaga 299

<210> 4339
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 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559349H1

<400> 4339

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 gactacaaaa tcttccgtgt acctgcaaga ctcgaggag ctgaagcgag tcttcagccg 180
 cttcgacgcc aacgngacg gcaagatctc cgtctcgag ttggacaacg tctccgctcc 240
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<210> 4340
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 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559350H1

<400> 4340

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 ttggaaccgc gttttccccg cttctgggct tggctcagaa gtagtcagaa tgatgtctgt 180
 cacaggcaaa agcattgatt ttgctggcaa aaacttggtc tcttgtggct gctcttccaa 240
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<210> 4341
 <211> 290

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559351H1

<400> 4341

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tggaggttnt gctgaaatgg ctggtatgag tcacagaatt agagagagaa ctgatgccct 180
tgatgctgcc ggaaacacga ctgccgctat tgggaaggga tttgccattg gttctgctgc 240
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<210> 4342

<211> 288

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559352H1

<400> 4342

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tttaagcaaa aatacaaact tataaactga agatattgca gccccatctc ccattctcct 180
tttgtactgt tctggccttg caggctgtat aagttatctg acagattgtg caatcattgt 240
aaacatgtat gctgacatac tttagtgaat cacataaagc aatatggt 288

<210> 4343

<211> 283

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559353H1

<400> 4343

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aagctcaggc atatgggtat cagaactaga atcaaacta gacacactgt gggacaacat 180
cgaagcatca ctctogaaat cctcatcagt ttctgacctt ttcccggtac aacagtttct 240

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<210> 4344

<211> 83

<212> nucleic acid

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<223> Clone ID: 700559355H1

<400> 4344

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<210> 4345

<211> 291

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559356H1

<400> 4345

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ttncgaggcg agcgagtngg tccgncatcg gagtcccaa acacacacac ttctgccant 120

ttatgagcac gagatcccgat aattcgatac aggagtaggg gtttcgnnnn nnnnnnnnnn 180

nnnnnnncct gctctcaagc tctgcgtctt gttactcatt cttctcggat tagtgaatgg 240

tncttttgcg gagaatgatt anggacnoga cgaaacgttg ttaanagttg g 291

<210> 4346

<211> 287

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559357H1

<400> 4346

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ttgggaagtt tctttcctgc atgaagggtgt tttcttcttg tctggacttc ctttcatatg 120

gcttgagagg gcagggtgga tgagcaagta caaaattcag gccaaaaata acaccctga 180

tgctcaggag aaatgtattg ttcgcctgtt gctttaccat ttggtgtcaa tctacctgtt 240

atgggtttttt catatcccggt cttcagatac atgggcatgc ggatagt 287

<210> 4347

<211> 289

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559359H1

<400> 4347

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ccatcggcac cggccaccgg tttcccggtg agctacagca ccagcaccac ggaggctgag 180

gtgtattcgt attcatacgg tccagttgta gtaccagtac cacctcccca ccctaaacct 240

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<210> 4348

<211> 212

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559360H1

<400> 4348

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ctgtgtatat gttttcttgg ttgaatacta atatgggtct gtaattacat aggttttagg 120

tttcagtctg taatatgggt ctgtaattac atgggttttg caactgattg atctttcttt 180

gcattcggca tttaagcatt gttttaaaact ca 212

<210> 4349

<211> 290

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559361H1

<400> 4349

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agaaaaatgcg agtggcgagac caccggttaa gaagcaaagt gccggcgagt tgcgtcttca 180
 caaagatata agcgagctga atctaccaa atcatgtacc atgcaattcc ccaatggcaa 240
 agatgacctg atgaactttg aagtttcaat tgcacctgat gatggatatt 290

<210> 4350
 <211> 136
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559364H1
 <400> 4350

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 gcgctctaca attnac 136

<210> 4351
 <211> 293
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559365H1
 <400> 4351

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 gcattaccag ctgatcttgt caagagagga ttggcagttg aggatccctc tgccccacat 180
 ggtcttcgcc ttgtgataga ggactaccct tatgctgttg atggacttga aatatgggat 240
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<210> 4352
 <211> 287
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559366H1
 <400> 4352

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gttgatgag aacaacttca agagagttgc acagttcatg aatgaaatta aaatcctagc 120
aaagttagtt catccaaatc tgtgaagtta tatggatgca cctctcgcca cagccgcgaa 180
cttctgcttg tatacgagta cattcctaata ggaaccgttg ctgatcatct tcatgggtcaa 240
cgatccaaac ctggaaaact cccttggnat attagaatga aatgcgt 287

<210> 4353
<211> 107
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559367H1

<400> 4353

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tgntgcanaa cttgccancc atgaactgaa gcaccagcac ataccca 107

<210> 4354
<211> 287
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559368H1

<400> 4354

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gaaagcaatt gaggagcttc ttagagggcg tgattctgcc caacaactta agagtgtcat 120
caatgggact tatgatgatg gatcagccac cccatttgct caacaacttg tgaaagaggt 180
gctcatgtcc ttcacaaact ccctcttggt cttgcacaac aacccccactt ctgaatcaca 240
tgcatgtctt caatgttcaa gtatgggact ctcccaagtc tgaggac 287

<210> 4355
<211> 288
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559370H1

<400> 4355

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 tccgcaaata tgggctccga tacgacgatt tgtacgatcc ttactacgat ctggatgtga 180
 aggaggcgct gaatcggtt ccgaaagagg tgggtggacgc tcgccacgcg cgtcttaaac 240
 gcgcccacgc atctttccat gaagcacgag tacctccctg acaatctg 288

<210> 4356
 <211> 287
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559371H1
 <400> 4356

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 agaaatccca accgcaggag gatgatgctc ccgttgctga ggacgtgagg gnnnnnnnnn 180
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnacaaggaa gacgatgctc 240
 taggtggtgc tgagggttca aagcagagca gagttagana agagtcg 287

<210> 4357
 <211> 286
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559372H1
 <400> 4357

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 ttogaagctc tcaccttcaa catccacggc ggcttcttag aggccatcgt ccgnggccac 120
 cgcgcgggcc tcctcaccac cgccgattac aacaacctct gccaatgcga aaccctcgac 180
 gacatcaaga tgcacctctc cgccaccgag tacggctcctt acctccaaaa cgagccttct 240
 ncattgcata ccacaacgat tgtggagaag tgtatcttaa gtgggtt 286

<210> 4358
 <211> 286
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559373H1

<400> 4358

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agataaacat gaactgggtc aaggtaagtc tgttgtcaat gatgcaactg taggaaanaa 120
atttgataag caaaccctg gagaagaaac taatttcctt attgggagga gaaatttaac 180
tgcttgcca agaaacaatg aaaggatttt aaacatggat aaagatgtat ctggttctgc 240
taagtgtcat ccggtcaatg caccagagaa ggggattgat tcagac 286

<210> 4359

<211> 288

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559375H1

<400> 4359

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cacaagtgtc tacacttcaa atggcttttg aagctcttca atcaccacc ananccactc 120
catcgtttag tccctttgaa gaaaccagtc tcagttactt agagacaccg tggacgaaag 180
gaaagcgttc taagcgtanc gccacggagc aacaactgca acacccttcc atgcaccgag 240
gaagagtacc tcgctctttg tctcatcatg ctcgntcgcg gcggcgcg 288

<210> 4360

<211> 285

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559377H1

<400> 4360

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acgagggcat ctcgtacatc tccgagganc ccttcgtcat cctcgacatg ttcacctatc 120
gcagaatcac cgtggacgta aaaaacgagg ttgcagtggc cgaagctgga gcaacacttg 180
gagaagtta ttacagaatg ctgggagaag agtaaagttc ttggctttcc agcaggggtg 240
tgtcccactg ttggcgctcg tggccatttc agcggcggag gtacg 285

<210> 4361
 <211> 131
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700559380H1

 <400> 4361

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 ctgacggcag g 131

<210> 4362
 <211> 289
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700559381H1

 <400> 4362

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 atggctctct catccccatc cttggctggc aaggccgtga agctggggcc atcagcccca 120
 gaagtgggaa gggtagcat gaggaagacc gtcaccaagc aggtctcctc aggaagccca 180
 tggtagcgcc cagaccgagt caagtacttg ggccattct ctggcgagcc cccgtcctac 240
 ctaaccggtg agttcccagg cgactacggc tgggacactg ctgggtttc 289

<210> 4363
 <211> 288
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700559382H1

 <400> 4363

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 agacacagtg tgagaaaaag gaaaaaatgg aaggtgaaga aactgagatg aaacaacaat 120
 ccaggttcaa aaggatttgt gtgtncgtg gcagcagncc tgggaacaag agtagctata 180
 aggacgtgc tattgagctt gggaaagagt tgggtgtcaag aaatattgat ctggtttatg 240

gaggaggaag cattggtttg atggggttgg ttcccaggct gtttatga 288

<210> 4364
<211> 286
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559383H1

<400> 4364

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ccagccctac agcgaggtgt tcgggctgca gaggttccgc cgagtgcgag ctcattcacg 120
ggaggtgggc catgctcgcc actctcgag ctctcactgt tgagtggctc actggtgtta 180
catggcaaga cgccggaaag gtggagctag tggaagggtc atcntaccta gggcaaccac 240
ttccattctc aatcaccana ctgatctgga tcgaggttct cgtaat 286

<210> 4365
<211> 232
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559384H1

<400> 4365

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tgtctcttc ttctttctcc ccgccactc tcaccacga gcaggagctt tccgtcatcg 120
ttgccgccct taccaacgtc gtcgccggt ccacctccgc ctccagctcc ttctccctcc 180
ccgaattccg ccttcacag acctctgate ctctcgccgc cgctgccta at 232

<210> 4366
<211> 279
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559385H1

<400> 4366

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agacagctat ctctgctctt aaggctgcc aattgagatg gcctcccttg tttgatggtg 120

tggnatcaac catagaagat tggattgttg accagatgat acagtacggc cagtgggtgga 180
aactggatat gaaactcttt nacttgtnag gtgtngcttg agactagagt ncccatccat 240
caggaagtct tccgtttcga aggggctcaa attgaggaa 279

<210> 4367
<211> 286
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559386H1

<400> 4367

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tcttggaaac accctatttt cacttcttca ggtgaagctg gatcattcct ccgcggaatc 120
gatgtgaacc gtttaccttc tgtggttgat tgcgaagagg aagcaggtgt ttcattctcca 180
aacagcacgg tttctagcgt cagtggaaag cgcagntnga gggaaaccaa tggagaagaa 240
aacgacacag acagagcttg ttccagaggc atcatcagcg acgaag 286

<210> 4368
<211> 284
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559389H1

<400> 4368

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agtctctgcn ctcagantag agcaatcnca ggacactggg gtgtggaagt gccctgtcac 180
atcatttcaa ggttgcnntc caaaaatgtn tttatatant ttgatttcan tgtatggtaa 240
agttttgata aaatttggcc agtttttaca gaagnantta tttc 284

<210> 4369
<211> 282
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559390H1

<400> 4369
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ttctanttgn ttgaatttta ttggaagcca tggattgttc atcatggatt aacacttcct 120
tggatctcaa cattaatccc cgcagagttc atgaagaagt tcccaaggag gtagaaagcg 180
agcttttctc tttgggaatg accangttta acgtggaaga agagtctact agtgacttgg 240
aggaggaact gaagcgggtg actgcagaaa acaagaagtt gg 282

<210> 4370
<211> 284
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559391H1

<400> 4370
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nactagaagg cantcctaac tctgncagaa ngaccttcgg agttnaacgg tncaagtctc 180
cgcaacttct ggnttgcgaa acagaaggcg tgttctgcga gcggaggtag ctctccggca 240
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<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559392H1

<400> 4371
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catanacggg gcgtattaac ggcgaaagac gtcgccgttn agggcttttg catganccgc 120
tgccgggaccc acggctctac ccgcaacgtc aaaaacgctg cccggacagc ttatatattg 180
gttggaact ccgaaactca gtgcnccggg caatgcgcgt ggccattcca ccaaccatt 240
tacgggcccc agacgccgcc gttagtcgcy cctaacggcg agtc 285

<210> 4372
 <211> 280
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559393H1

<400> 4372

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 gcagtccagg ctttgatagt ttttaaaatt gcaccagtgt tgagaaagaa gtgagtttag 180
 aaataggcat cctaaataat gacatcactg atttcagtgg ccacaattac tctgctgtgc 240
 tcttttggat actgcagctg cctatagaga ctagtgagtt 280

<210> 4373
 <211> 306
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559406H1

<400> 4373

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 acacagtcaa gttggccaaa cataaagagc ttgccccata tgatgagaac tggttctaca 180
 cagcagctgc ttccacagca cggcacctgt acctccgtgg tggcgcaggg gttggttcca 240
 tgaccaagat ctacggagga cggcagagaa acggtgtcag gccagccac ttcagcagag 300
 gctcta 306

<210> 4374
 <211> 307
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559407H1

<400> 4374

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cgcttcctt tttcaataaa atttttctta gtagccatta cttttctact attcgaccta 180
gaaatgcct tactacttcc cctcccatga gcgattcaaa caaccaatac cactacaata 240
atagcaactg cctttatttt agtcactatn ttagctcttg gcctaagcta cgaatggaac 300
acaaaaa 307

<210> 4375
<211> 305
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559409H1

<400> 4375

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tgcaaagatg gtcacgtacc taaaacccga aggactttct gtaagaaatg tggcaagcac 120
cagcctcaca aagtgaccca gtataagaag ggcaaggatt cctgtatgc ccaaggaaag 180
cggcgtacg accggaagca gagggttat ggcgggcaaa caaagccaat ttttcgaaag 240
aaggccaaaa ccacaaagaa gttgtgctca ggcttgagtg tgttgagccc actgcagatc 300
taaga 305

<210> 4376
<211> 304
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559410H1

<400> 4376

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ctgcngggca acacagcgcc ntgctaacgg gtggccaact actgngagga taantacttg 120
caggccacag acaagcggaa ggcgctggaa gagacgatgg ctttcaccac ccaggccctg 180
gccagtgtag cctatcaagt gggtaacctg gcggggcaca cgcttcgaat gctggatcta 240
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atgc 304

<210> 4377
 <211> 304
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559411H1

<400> 4377

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 ctccgactcc aactcgcatc cccattccca tcaacactgc caattcaaatt accttattat 120
 tccaacctcg cttcactctt tcttctcatt ctctctcttc cttttccgct tacagttaca 180
 gaggccccac accaaaacgc cccttcctcg ccgactgggt ctcccaaac gacgacctcg 240
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 ccct 304

<210> 4378
 <211> 301
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559413H1

<400> 4378

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 ttcctcgnct aagaagccan gannntgggt gtagnagtgt atcncaatnt gaagtctgtg 120
 attaagaaga aatatggtca agatgcaata aatgntggtg acgaagggtg ctttgcccct 180
 aacatccagg naaacaagga aggcttgga ntgtgaaaa ctgccatcgc caaagctgggt 240
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 c 301

<210> 4379
 <211> 303
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559415H1

<400> 4379

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ganaaaaccc tacacaanaa gcggaagtat gagntgggac ggccggccgn canactaag 120
 attngcnctn gccgcatana tacantccga gtncgaggag gcnatnagaa gtatcgtgct 180
 ctgagattgg atgtgnggaa ctttncttgg ggctcagagn gtngtnctcg caaaacaagg 240
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 nng 303

<210> 4380
 <211> 306
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559416H1

<400> 4380

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 gagggactcc tttgtctcaa aggagttgga gttttctggg tttttgtggg attggagatt 180
 tagagagtgc ccctgcactc cctgttttat ttcattacca tgattgccac tgaaactata 240
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 caaaat 306

<210> 4381
 <211> 303
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559418H1

<400> 4381

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 acgcagatcc ggtcagcgan aacctgccac ttcctacgtg aggaccanca ncaacaagaa 180
 tgctcggggt accctcagca gcatcaggca catgatccga aaaaacaagt accgcctgat 240
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 gtg 303

<210> 4382
 <211> 303
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559419H1
 <400> 4382
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 agtcacacgt gaggggttcac agttagagca cagcaacaac aagtgaatgg tggtagagta 120
 caaagtagcc gtagggcant gctttcactt gttgctgctg gtttgaccac tggctctttt 180
 gttcaagctg tgcttgctga tgccaaacct atcaaagttg gancacctcc cccancttct 240
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 aga 303

<210> 4383
 <211> 303
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559420H1
 <400> 4383
 gaagacctag ntcactatgc agatgaaaga ggaggagcca ncgnnnngggg caagaagtct 60
 gaanctgatg gcatggaaaa gaaaacctgg cncatgccta gaganaatta aaaagaacca 120
 gaggcaagat tacttaaagt gtgcagtgtc tggctcgggtg caggccactg accgngtgat 180
 ganggagctc agggatatat accgatcaca gaggtttcaa ggcggaataa ngcagtcgaa 240
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<210> 4384
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559421H1
 <400> 4384

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 ctatgatcca accccatcac caccacaga ttggtggaagt tacaatccaa ccccatcacc 180
 acccncaggc agcaactgtg gcacaccacc acatgacccc tctactccaa caccctcagt 240
 cccaacaaca ccatcaacc caacaacacc atcaacccca tcaagccatc acaccctccc 300
 tcagg 305

<210> 4385
 <211> 304
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559422H1

<400> 4385

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 caatacgcac caanaacctt ccaaactga aaagtgtctt cggtcctaat ggaagattaa 180
 tggcaataac attgggacat gcattggngt catgacagtg gcacacttgg ttgctccagt 240
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 ctgg 304

<210> 4386
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 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559423H1

<400> 4386

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 cgagcgagtg cgtgctttca tgggcctctt ctttatgaag caaagtgtgt aaaggttgcc 120
 ataaaggaca aacaagtga gtaatttatc cattacagtg gctggaataa aaattgggat 180
 gaatgggtgc caganagcag agtgctcaaa tacgtggacg ccaatttgca gaaacag 237

<210> 4387
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 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559426H1

<400> 4387

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 tcgcttggtg gaagagattc caaacatggg aaattccagt tgtgtgagca aggagccaag 180
 aggttcacag atgacaatct tttatggtgg ccaagttctt gtcttgatg atattcaagc 240
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<210> 4388
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 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559427H1

<400> 4388

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<210> 4389
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 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559428H1

<400> 4389

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 aagatcaaaa cttgggaagg aacattcaca tccacatcag ggtocattca cacaggcata 180
 tccttgattg aagattt 197

<210> 4390
 <211> 298
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559429H1
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 aagccgctcc tgctaagact aagggttaca agccaaagca aaaggttgaa gatggtatct 180
 ttggcacttc tggaggattt ggttttacta agcagaacga gctctttgtg ggtcgtgttg 240
 ctatgcttgg ttttgcagca tcaactgttg gtgaaggaat aactgggaaa ggaatcta 298

<210> 4391
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559430H1
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 ggatccacga nggatgtcct tcaagcctgg tacatggatg atagtgatgn agntcanaga 120
 ctnccccacc acaaagaacc caaggagttt gtctcgttgg accaacttgc tgaanttga 180
 gtccttagct ggaaactaga tgctgataac catgaaaatg atccagagct gaagaagatc 240
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<210> 4392
 <211> 128
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559431H1
 <400> 4392
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 aaaaggaagg nntctcaagc attcagtgtg agtcccattt gtganttaag ggtgccactt 120
 angaccag 128

<210> 4393
 <211> 187
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559433H1
 <400> 4393
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 gacaacagtg agagancact gtgagcagtt ggagaagtgt gtaaaagccc gggaaacgact 180
 anagtgc 187

<210> 4394
 <211> 307
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559434H1
 <400> 4394
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 ctttnacagg atcaaggaag agactcaana accaacanna ggtgttgtnc attgnngtan 180
 ttgtttgtaa ctgtagcnac aggaagatgg ttggatagtt ggttntngtg aggetgtggn 240
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 nancct 307

<210> 4395
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559436H1
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 cgccgtgcat nctactcagc tcacactgtc tctttctcac tgtgggagta gctatgggaa 120

aggtcacact tccttgcntt cccctcaaac cancagggnt tncanttctc agtctcccaa 180
cgcaactgcac acngctcnca gcatcc 206

<210> 4396
<211> 301
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559438H1

<400> 4396

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accatggca catgcagcta tcacgtgcgg gcaggtgacg aatagcctga tcaattgcat 180
cggttacctc cagaacggag gaacgccgcc gtcgggatgc tgcaacggag tgaagagcct 240
caatgccgcc gccaaacca ccgccgaccg ccagacggcg tgcaatgcct caagtcggcc 300
g 301

<210> 4397
<211> 86
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559439H1

<400> 4397

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tgctgcaggc gggtaggaccg ganggc 86

<210> 4398
<211> 60
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559440H1

<400> 4398

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<210> 4399
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 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700559442H1

 <400> 4399

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 tggctattgt tggtagagag gactgcagcc tctgattact catgccaaaa caaaggggtc 120
 aaaaaggggtg aagatccata gggagtttgc tgagcttttg gaagaggaac tgcgcaaaag 180
 gggctctgca gtaattccac ctggggaagt atttggttaag tggaaagggt taatgaggag 240
 ctagccaagc tcatggaaaa gtattcccta tctcaccag aaaagtccaa tggatatctga 300

<210> 4400
 <211> 297
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700559444H1

 <400> 4400

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 ttagacatgt caataatc acatgacaac gctcatgcg atagggccac gaggcgcacc 180
 gacgacgagg tgatgtcaat gttcgaggag tgggttggtga aacacgacaa ggtgtacaac 240
 gcgctcggtg agaaggagaa gaggtttcaa atcttcaaga acaatctgcg ctttacc 297

<210> 4401
 <211> 269
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700559445H1

 <400> 4401

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 ttccggccat ggttgtggcc attcgcccag caaagaaccc tttttgcgtg aagggtcgcg 180

tctactgtga cccttgccgt gctgggtttg agacctcagc aaccactaca ttgccggtgc 240
 tgagattatg ttgcaatgca agagcnggg 269

<210> 4402
 <211> 300
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559446H1

<400> 4402

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 ccgttgtnnt cgaangtgaa gagcttccga cggggatcgn ggggctngac gtggtgccga 120
 ncgcgnggga ggtgctcgat tgggctgtac agcaagacgc tnaaagagat ccagaangtt 180
 cccgaanatn aagggtaccg caaggccntn gagagcttca ccaancanag gctcngngtn 240
 tgcnangaac nannatgact gngcgaanat cnagaaacgc nttccgctgc ggcnaggteg 300

<210> 4403
 <211> 300
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559448H1

<400> 4403

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 tccaactatg ataggattgc naaatacctt aacatgtctc aaaagagagt cagaaatgcn 120
 actgaggcaa tcagcaanat tatctcgctt gatagagnag cantcccctc tctgantggn 180
 ctanaaggng aaactcatna tagttntant gcagatnatc gagnggagaa catncctgga 240
 atggagtagn ngagtngca ctnnnggatg aagtgnanag acncattaat gtgnccttgt 300

<210> 4404
 <211> 69
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559449H1

<400> 4404

acactgnagc taaccgccag gcataccgta cctcctcgtg gncantccag ggcttgggng 60
tacatctct 69

<210> 4405
<211> 303
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559450H1

<400> 4405

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tttgtccacc aaaagcaggt agttttctgg aggaacagca agaagggcag ctgcagcaag 180
cagncagagt ctatgtgata acntgngcag caggtgactc acanacantg gtgattggcc 240
tgggtgcaga ctccaggtgt gggaagagca cttcatgagg aggctgacca gtntgnttgg 300
ngg 303

<210> 4406
<211> 295
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559452H1

<400> 4406

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gttctagtgc ttatgctagt tgggatagtg attagcacta tggttgctac ctgtgctgg 120
agcttctacc aagactttga tctaacatgg ggtggtgacc gtgctaagat attcaatgg 180
ggccagcttc tatctctttc ccttgacaaa gtctctggct ctggcttcaa atcaaagaaa 240
gaatacctat ttgggaggat tgatatgcag ctcaagctcg ttgctggcaa ctctg 295

<210> 4407
<211> 299
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559456H1

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 tttctcngct cttnacctca gcagagangg catctnctgc agtttccaag nctcaagcct 180
 cgaggcagat tctctggtct aatgtctggc tggggttctc cgtctgcntc ncgnatccat 240
 attctntgtt ncaccnttta tagtaattnc tctgtggcac atatcacaga gctcctcct 299

<210> 4408
 <211> 298
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559457H1

<400> 4408
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 ntttncctctg tagatcnatc tatctagctt cggagctgca aatggncgtc gcagtcactg 120
 ccttcgggtc accgctgatc atcctcngaa gaccgggtcaa cgagtctgcc tcagctcggc 180
 tcggttccac ttttgggttt nccagaaagn aacggttcag ttcagtatgt atncccaaac 240
 acaagcacia gcaaggctgt acaagagggt ttgtagttag agcttctgca tcctcatc 298

<210> 4409
 <211> 294
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559458H1

<400> 4409
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 ccttacattt agaggaagaa gaagccttcc ctggagaatc tgaatgagat gcccatcaga 120
 ttatactaca ccatgaagct gtaggtacca atgaaacat aaaatgatgg aagatttgtg 180
 aagccattct tttaccctga gcatctagga atttatcctc atagatttta gttctgactt 240
 tgaaagatgg ttctggaacc aatgcttaca taatgtatag cttgtccacc gttt 294

<210> 4410
 <211> 292
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700559460H1

 <400> 4410

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 ctaagctggt ataggcactt gagcaatttg gaaatgtcga atttattgcg gcattctttg 120
 agcaaattca ctttcagtcc aaacggnaca ccaactggga gngananagt nacaccanaa 180
 cataagcatc tgagaccatt tcaatgtgtg ctgacacagg ataacagang cattgccgtc 240
 aagaatggca atgattcatt ggtcatntgt cgggttggtga atgggatgtg gc 292

<210> 4411
 <211> 294
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700559461H1

 <400> 4411

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 gtcagaattg aactctctgcc ccgtcctgga aggctcggaa ggcttcctgc aggagggaga 120
 gctgcacggg actgaggacc aagatgcaaa ggcttagcag acaaaacagc aaaggccaag 180
 tccctggagg tgggaccgtc cgccccactg aggaggcagc ctgcggtaca gcacgtgagc 240
 aggagatcaa gaaccgcgcc tatccctgca gccccgggta cttccatgca gggc 294

<210> 4412
 <211> 295
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700559462H1

 <400> 4412

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 gtatcgggac agaaaggggt gctgttgcca ggtggtagag gaggcagagg gaatgcttca 120
 ttcaagtcat ggactaataa ggtccccaag attgccgaga atggggaaga gggctcctgaa 180

atgtggttgg agttagaact caagctggtt ncggatgttg gtatagttgg tgctccgaat 240
gcagggaaaa gtacactttt gagtgttgtt agtgetgcaa agccggctgt tgcta 295

<210> 4413
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<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559463H1

<400> 4413

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tccatctttc cagcgaattc agtttttctt ctcaaattat cctagttcat gccatgcagc 180
agaaaatgag gtagattgag cagcaataag aataacaaat tgaactaatt gaaagatata 240
atgtgcatgc aattattatg tagcattgtt ataaaaatgt cctcagatat tgttgaatcc 300

<210> 4414
<211> 179
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559465H1

<400> 4414

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tccatggcaa agtgccntn gaatanaacg gcgactgcgc caccaccgcc tcagcatccg 120
cctccgcagc cgcggagtct cagagatcca ttcccacgcc gtttctcanc aaaaccttt 179

<210> 4415
<211> 297
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559466H1

<400> 4415

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ttgaaccatt tgtcatagcn acaaacaggc atcttagtgt gctccaccct atttataaac 180
 ttttgttgcc tcaactatcgt gacaccatga acatcaatgg actcgcaaga caatcactca 240
 tcaatgcagg tggcattatt gagcaatcat ttctgcctga gccatttggc tgtggag 297

<210> 4416
 <211> 295
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559468H1
 <400> 4416

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 acctatggca caatatatca tcaacatgaa tgcttcattg cctgcatctg acaagtccat 180
 tatacatatc ttggatantn cccattatgg ttgttcaacc tcatgttgag caaatgatac 240
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<210> 4417
 <211> 96
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559469H1
 <400> 4417

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<210> 4418
 <211> 292
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559471H1
 <400> 4418

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gaacccgctg cagctaaact catttgctcc cttaagcccg atctcaaaga ntttntctaa 180
 aaatgtgtcg acgccaccaa aattgcagga ttgcgcccttg ncacctcagn tctcgtngtt 240
 tctggagcga gtncagaagt gttcccaaga ggtanccttc gacgaaatcc ag 292

<210> 4419
 <211> 128
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559472H1
 <400> 4419

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 gccaccctc agagtnggct ctccattccc agcctcagtc caggagncag acccnacaca 120
 tatngcat 128

<210> 4420
 <211> 293
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559473H1
 <400> 4420

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 tgcngataag ctgactggcg tgtttctcc tcgtccatcc actggtccac acaaactgag 120
 ggantgcctg cctctgatca ttttcctaag gaacagactt aagtatgcc tgactggaga 180
 tgaagtaaaa aagatttgca tgcagcgatt cattaagatt gatgggaaag tcaggaccga 240
 tataacctac cctgctgggt ttatggatgt catcagcatt gacaagactg gag 293

<210> 4421
 <211> 266
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559474H1
 <400> 4421

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ggagctagga cccatgcaga aggagctggc tgagcagctg ggccgtgtcta ccggggagaa 120
 ggagaaattg ccaggagaac tggagcctgt gcaggccgcc cagaacaaga cagggaagta 180
 tgtgcctcct agtctccggg acggggcaag ccgccgtggg gagtctatgc agccaaaccg 240
 cagagctgat gacaatgcca ccatcc 266

<210> 4422
 <211> 289
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559477H1
 <400> 4422

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 agatcaccga ggcgtgggct gtggctcaga gattggacct tgttgggcct attgttgaac 120
 agcctgagta taacctcttg tccaggcaca aggttgagtc ggagtttctt cctctgtaca 180
 ccaactatgg cacaggcctc actacatgga gtcctcttgc ctctggagtg ctcactggga 240
 aatataagaa aggagttata ccaccagata gcagattcgc tttggaaaa 289

<210> 4423
 <211> 216
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559482H1
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 cgcagngaac ttcaacnang tgctcntctc ataggtatta ctgtnatntg caactaccat 180
 tcttctntnt ctctncnntt tgnnctngaa agacng 216

<210> 4424
 <211> 293
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559483H1

<400> 4424

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 tgaattagcg caagaccgga taattacttt gtgtgggtcat cttttctgct ggccctgtct 180
 ttacaaatgg cttcactttc actcacaatc acgagaatgc cgggtnnngc aaggccctcg 240
 tggaggagga gaagctgggt cccttgatg ggagaggaaa gtcgtcgact gat 293

<210> 4425

<211> 292

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559485H1

<400> 4425

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 gatggacccc ccttctcat gatgcggtgg agaagccgag gccactcggc cctgccagat 120
 gttcttgggg ttactgtaca aggggagaac gagcagagct aaacaagaat ttaaaaagga 180
 cgaaggaagg agaccgcat cctgctcaga tacaagatc taagagggtt gtttcccccg 240
 catcctccaa agctgtgagc atcagaataa tattttccca aagagtgcac cg 292

<210> 4426

<211> 223

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559487H1

<400> 4426

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 aggtggctgc ttactgcaat ggagtttttg gcaattgcag agccagtctt agttaattac 120
 tagtattctg tgtataatct ctctctacct tgggtcatag ctgggttttt tcttgcttga 180
 ccaggagaaa ttagtcact taatatgttt ctcaagtgcac tcg 223

<210> 4427

<211> 292

<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559490H1

<400> 4427

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ctgacgggca aagaccatca ctnccttgagg tcgagcccag tgacaccatc gagnetgtca 120
aggccaagat ncaagacaag gaatgcatcc cccctgacca gcagagactg atctttgctg 180
gcaaacagtg gaggatggcc gcaccctgtc cgactacaac atccagaaag agtccacctt 240
gcacctgggtg tgcgtcttcg cgggtggcatc atcgagccgt cccttcgtca gt 292

<210> 4428
<211> 287
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559491H1

<400> 4428

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aggctgctgt taatggcctg tggggaaagg tgaaccctga tgatgttggt ggcgaggccc 120
tgggcaggct gctggttgtc tacccttgga cccagatgta ctttgatagt ttggggacct 180
gtcctctgcc tctgctatca tgggtaancc taaggatgaag gcccatggca aganngtgat 240
aaacgccttc aatgatggcc tgaaacactt ggacaacctc aaggga 287

<210> 4429
<211> 286
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559492H1

<400> 4429

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ataagacgca cacgtgtgcn cgccgctgtg gctccaaggc ctaccacctt cagaagtcca 120
cctgtggcaa atgtggctac cctgccaagc gcaagagaaa gtataactgg agtgccaagg 180
ctaagaggcg aaacactacc gggactggtc ggatgaggca cctaaagatc gtctaccgaa 240

gattcagaca tggttccgtg aaggaacaac acctaaaccc aagagg

286

<210> 4430

<211> 287

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559493H1

<400> 4430

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ccattccgca gcctcagtg aagncacag tcctacacat atggcgtgtg gagaagctga 120

agncggtgcc catagcacga nagaacatg gcatctttt ttctggggat nctacctagt 180

gnntcacaat ngcacngaag aggcctcnca tctgcacctg tggataggcc agcagtcac 240

gcgcgatgac catggggctg cgctgtgcta gtgtgcacct canaacc 287

<210> 4431

<211> 291

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559494H1

<400> 4431

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aatggctatc ncttgcttcg ttgctcagtt gttccatttc atgccaatta tccactgtct 120

actcaaacc aattgttagt tccttccaat cttagttact cctttgctac aacaggaacc 180

agaaagttca agtctttcca gctcaaggct ggattttggg aatcaattaa atctgggttg 240

atgaagaata atccatgcaa gtcagatcc accctctgca gatgaagaga c 291

<210> 4432

<211> 288

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559495H1

<400> 4432

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cntatgcgtn gccttcggan ncccattgcg ccatttccca cgacgctaaa acctctnatn 120
 tctnaacett tcagntntcaa tcgnttcctt ctacntctta naagntcant ttntcggctc 180
 ggtcacntat tntcaanctt cctaaggtct ctgaatccgc ggttgcnгаа accgaaacng 240
 gttgtncgag ccgaacngnc naaattgtcn cggtcagtn ctctggga 288

<210> 4433
 <211> 166
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559496H1

<400> 4433

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 ctgggggnag ttggtggccn tgggtggtgaa atatggcgag gaggccctac agnggatggt 120
 cgctgccttc acccaccacc nanacctnnt tctctcgna ttgatg 166

<210> 4434
 <211> 290
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559502H1

<400> 4434

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 tggcacgcac gcacgcacag tctctagtgg taccgtgccg gttcatttgc ttcattccacc 120
 acctcatttt cagagatttc gtgcactcaa caaactctca tccacccatg gcgtcatcac 180
 tatcaacaat agctctattc ctgccccaat cgctctatat taagccccgc ctggcgccac 240
 ggctctttcc tccccctcaa ttccgctccc ttttcctaac ctcaccggcg 290

<210> 4435
 <211> 290
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559503H1

<400> 4435

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 ctgtttcaca anttgtttcg gaaaataata gtttgacatc acatgagata atagacattc 120
 caccttctag caaagttggt tccactcatg aagttactng tcacaatgaa tttcaaggga 180
 taactcctgt tggaaattct tctgccgagg aaaagggaga atctacagca aaagctgang 240
 aagcaggcac atctaccctc gttggatggt ctgagcagga aactgcttct 290

<210> 4436
 <211> 285
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559504H1
 <400> 4436

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 ggaatttcca atgatnctta atttcttaca atccaatctg caaactgagt gagatatata 120
 acttgttttt gatttcttcc tcatcatttt gcntanacan agattaaaat ggaagggttt 180
 tntggaaatt gcttcaatat gantttgctg atgttggtgt tcaccaactt gagcatagct 240
 nttgctcaan gtcatatgaa tggatttgga gagcagccat ggcca 285

<210> 4437
 <211> 289
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559505H1
 <400> 4437

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 ccagagaacc cgacaatccc accaagttcc tgcaaggcca naggcgctga cctcagagtt 120
 cattttaaga aactagggga gactgccttt nccatcagga agttgcccct tgttaaagct 180
 aaacgatact tagaggatgt tttggcccac aaacaggcta ttcctttccg ncgcttttgt 240
 ggtggtgttg ggaggacggc ccaggctaag aacagacact ccaatgggc 289

<210> 4438
 <211> 286

<212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559507H1

<400> 4438

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 acagcagcag ccacctcgtc cttcatgggg acgcgcctcc tggaggccca ctccggggcg 120
 gggcgggtgc agggccggtt cgggtttggc aagaagaaag ccgccgcccc gaagaaagtt 180
 tccagggggt cgggctctag ctccgatagg cccctgtggt atccggggcg caaggcgccg 240
 agtacctgga tgggagcctt gtcggagata cggattcgac ccattt 286

<210> 4439
 <211> 289
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559508H1

<400> 4439

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 tccttatngt gaatgcaacc atcctgcnc aanttngcnag naagnngtat ctgggnanaa 180
 gccagaagct cnttacaang tagacaatcc cgaggttagg cagtttgtag agaaatgctt 240
 agcaatgtgt ccctcagact ttcagctagg gaatcttggg ggacccttt 289

<210> 4440
 <211> 283
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559509H1

<400> 4440

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 ccacatgatc cccatgatgg acattgcaag actattggca cggcgtgggtg tgattgtttc 120
 catattcacc accccaaaaa atgcatcacg attcaattct gtnctttctc gtgatgtttc 180
 atcaggcctc ccaatccggc tagtacaact ccattttcca tccaaagaag caggactacc 240

tgaagggtgt gagaatttgg acatggtagc ctcaaacgat ttg

283

<210> 4441

<211> 290

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559510H1

<400> 4441

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ttctctccggc taatgtgctc acgccagggg tattggctga agaggcatca aagatngctt 120

caacatataa tgatgttttt actgccaaaa tattagatgc tgagcagtgt aaagaattga 180

aaatgggggc ctatcttggg gttgctgcag cctcagcaaa tctctctcat tttatccatc 240

tgtgttataa accaccaact ggacctgtca atgtcaagtt agcattagtc 290

<210> 4442

<211> 292

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559511H1

<400> 4442

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agatgagctt atcaagaatg ccaagtacat aggccacacc agggaagggg atcctggcag 120

cagatgagag cacgggcacc atcggaagc gcctagcgag cattaacgtt gagaacattg 180

aggccaaccg ccaagccctt cgcgagcttc tcttcaccgc tccaaatgcc ctccaatacc 240

tctctggtgt catcctcttt gaggaaactc tttaccagaa gacctctgat gg 292

<210> 4443

<211> 248

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559512H1

<400> 4443

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gccttctcta ccttccacgc gaaccttctc tagaaaccga agcctcattg tcaaagnnnn 120
 nnnnnnnnnn nnnagacgact tctccaaaag caggcgacgc ttcacgcgcg aaaccgcccgc 180
 actctcgggc tcgctccctc agttagcggc gcgtgccgaa gacgcgcttt cggagtggga 240
 gagagtat 248

<210> 4444
 <211> 294
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559513H1
 <400> 4444

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 ttacatgcgt accgcnacca tgaacatggc gatcgtgctt ctgttcattg ttttcgcagt 120
 ttcacagct ttagacatgt caataatctc acatgacaac gctcatgcgg atagggccac 180
 gaggcgcacc gacgacgagg tgatgtcaat gttcgaggag tggctggtga aacacgacaa 240
 ggtgtacaac gcgctcggcg agaaggagaa gaggtttcaa atcttcaaga acaa 294

<210> 4445
 <211> 272
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559514H1
 <400> 4445

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 tggctgcctc cgtctccact gtcggagctg tcaacagagc tcttttgaac ctgaatgggt 120
 ctggacctgg ggtttcagct cccagttcat ccttctttgg gagcagcttg aagaagggtta 180
 ttggctcaag ggtccccaac acaaagattt cctctggaag cttcaagatt gttgctgtag 240
 aagagaagaa agagattgaa gagaccacgc ag 272

<210> 4446
 <211> 231
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559516H1

<400> 4446

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cta atggagg agtacggcca gatcctcggt gtgaactccg ataactgagg atcgaaccag 120
ctccagaaca ttcgcaaggg tctccgtggc gactccgtcg tctcatggg gaagaacacc 180
atgatgaagc gctcagtcag gatgcacgct gagaaaaccg gaaacaacgc t 231

<210> 4447

<211> 287

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559517H1

<400> 4447

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cttgagatcg atggtttagc tcgctttgct gttgaagaac acaacaaaaa acagaatgcc 120
cttttggagt ttgaaaaggt agtaagtga aaacagcaag tggtttctgg taccttgtac 180
accatcactt tggaggcaaa agatgggtggg caaaagaagg tttatgaagc caaagtttgg 240
gagaaggcat ggttgaactt caaggagggtg caagagttca agcttgt 287

<210> 4448

<211> 287

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559518H1

<400> 4448

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anannatgnt ntganggggtt acaaaatcag tgttgcaatg gcagaanaat ctgcaccaag 120
agctccacnt gcatataacc aagggggcaa taggggtggc tatgggtggag atagacgcag 180
agacaattat agtcgatgga ggtggttctg ggctgatag gcgtgancat tatggantcg 240
ttctngtcca tactgagagc ttggn cattg aacgttttat gtacnnt 287

<210> 4449
 <211> 284
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700559519H1

 <400> 4449

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 ntggcttccc ttggcatgtc agaantgctt ggaaacccca tcaacctcag tgggtgccaca 120
 aggccagctc catctgcctc tagccctgcc tccttcaaga ctgtggctct tttctccaaa 180
 aagaaggctg cacctccaaa aaaagctgca gctgctgctc cngccaatga tgagcttgcc 240
 aagtggatg gtctgacag aaggatcttc ttgcctgagg gtct 284

<210> 4450
 <211> 286
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700559520H1

 <400> 4450

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 tccctatccc tgacgtcatg aagtcctcca tccgcccga catcgtcaac ttcgtacact 180
 ccaanatctc caagaacagc cgacaaccct atgcagtcag ccgcccgcgt ggccaccaga 240
 cttccgccga gtctgggga accggtcgtg ccgtctcccg tatccc 286

<210> 4451
 <211> 286
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700559522H1

 <400> 4451

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 actcagtgg ttgactgct accgacccaa accttaacta caagccggtg atcggaatcc 180

tgacctaccc oggcgacggt gcctctggcc ggctcagcaa cgccaccggg gtttcttaca 240
tcgccgcctc ctacgttaaa ttcgtggagt ccggtgggtgc tagagt 286

<210> 4452
<211> 284
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559523H1

<400> 4452

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ccaatgtgag cttgtctttg ccaagatggg aatcaacccc atcatgatga gtgctggaga 120
gttggaagt ggaaatgcag gagagccagc aaaactgac aggcagagat accgtgaagc 180
tgcagacatg atcaagaagg gaaagatgtg cgctctcttc atcaacgac ttgatgcagg 240
agctggctgt cttggtggaa ccacacaata cactgtgaac aacc 284

<210> 4453
<211> 285
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559524H1

<400> 4453

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agtaagaaga gtgtgcatga acatcatgag tagtagtaga agcagaggca gctggtnccg 120
tttgtggcct ggttccttca atatggaaac tgagttgact attagaggaa agagtttttg 180
tggcattttt ggctcctctg ctaagcctag atcactcagg gttcagtctt ctgatgaaga 240
tgttgaggat cttgtcccct ctaatatctc gggcaaacct tctgg 285

<210> 4454
<211> 284
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559531H1

<400> 4454

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 aantccacga ngatttggtc cгнаacgtat ccaacgcctn anatggccgn acgnncgcac 180
 gacgtcnccg cgctctcnct tcgaggtaaг tcggcgtgtc tcaanttcgn cgactcagct 240
 ngcggttgcc cttgccggcg tcgaccaatg cgaaggagat tcgg 284

<210> 4455
 <211> 287
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559532H1
 <400> 4455

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 aatttttctt cacccaaagt gatcaaggaa nagattctgc anttanccag atgagnaaat 120
 ccgttgagaa gcttggnctc tctgcagagg ggtatgggga ccctacgttg atgaggtttt 180
 tgatagctcg atcgatggan gtggataaan cagcnngat gtnnctncag tggangaagt 240
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<210> 4456
 <211> 284
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559533H1
 <400> 4456

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 gaatcgcaaa cactttactc tctcctcaga gcagagcagc gtccactcca tgagatcctc 180
 tcncgttcaa ctccgcaatc ccttcctctc gccatttcan tctctcttcc tatctcctca 240
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<210> 4457
 <211> 281

tgtcgttctt ttaccaatga gataattaa gcctatgcc ag 282

<210> 4460
 <211> 280
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559539H1
 <400> 4460

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 ctatatgggg ttgatggatg tggaccaaac tcaattgttg tctaagatgg tcatcggaga 180
 tgnacatggt gaagcatcac catactttga tggatggaag gctnatgatg aaaaccctt 240
 tcatcccaaa ganaatccta acggggttat cnaaatgggt 280

<210> 4461
 <211> 281
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559540H1
 <400> 4461

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 tnttttctgg ttaacagcct ncccaccctg gaaacggctc agccggaggt aggggtccagc 120
 ggctggaaga gcaccgcacg tcgctgggtg tccggtgcgc ccccgccggg cccttgaaaa 180
 tccggaggac cgagtgcctc ccangcccgg tcgtactcat aaccgcatca ggtctccaag 240
 gtnaacagcc tctggtogat ggaacaatgt aggcaaggga a 281

<210> 4462
 <211> 164
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559542H1
 <400> 4462

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tttgaacatg tttcaaattg gatataatgt tgttcattct ggcaatattt ctgccaagag 120
aagcaatcat gtcagtaaatt ttcaaaccct tctttctcac tgat 164

<210> 4463

<211> 153

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559543H1

<400> 4463

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agagaagatg ctaagtttga gatgatctta ctatattttt catattggac cgtcttcctc 120
tataattttg agttacagtg tccacttaaa ttg 153

<210> 4464

<211> 283

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559544H1

<400> 4464

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gttccaatgt ggccagaggg tgtcccagaa agtgcacag ttcaggcaat attggattgg 120
cagaggagaa caatggatat gatgtacaag gatgttggtc aggcgctccg ggccaagggg 180
atagtggaaa atcctcgtaa ctatttgaca ttcttctgcc ttggtaatag ggaggtgaag 240
aaacaaggag agtacgagcc tccagaaaga ccagatcctg ata 283

<210> 4465

<211> 284

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559545H1

<400> 4465

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gttaccgaag agnaaggatg aagaggaac gcgancagct tggttccatc gcagggaacct 120

caagctgcgg ttattcaagc ggaaaatcga atctttggga ggaagaagga ggcattggacg 180
 agcttcttgc ggtggtgggt tacaaggtta ggtcatcgga catggcggaa gtggcgagcaga 240
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<210> 4466
 <211> 271
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559546H1
 <400> 4466

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 canacagcaa cagttcctgg tccaacgac gangccatct atggcggtga caccacagtg 120
 agatggcaaa atcacctccc tccaaagcac atacttcctt ggncccccta cgatccccac 180
 cgcgatgacc aactccacac gtggcattcc cacagtggtc cacctccacg gtgggatcca 240
 cgcgccagag agcgacggaa acgccancgc a 271

<210> 4467
 <211> 289
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559547H1
 <400> 4467

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 ttggttgtnt tntattcttt canatacatt ccaaaatctc ttggaaattg cgagattcac 120
 tgcttatcct agcagcagat tttgggttct gacccaatta ttcattttcc ccaactgggt 180
 cttgtggatt ttttgttggg gttttaaatt tctgtgtgct gggtttgaaa gttatttctt 240
 ttcttccccg tctggattca actcccaagt nttnnnngcna attggggta 289

<210> 4468
 <211> 290
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559548H1

<400> 4468
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 tgcctcaaag cttttatcag agttcaatac aagcgttgtg gagtacacga gttatgcaga 120
 cacaacaacg attccgggtc actacgtgat ttattgggaa ttgttgacca aggactcgac 180
 gaactcacc cagtcacgagg tgttgaatcg gtgttggttg gagatggagg agtgcttgaa 240
 ctcggtgtat agacaatgtc gtgttgctga tcattccatt ggcccattgg 290

<210> 4469
 <211> 274
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559550H1

<400> 4469
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 attttttctt tttctgggtct ttgagaccat gaagtagtag ttgtagtaga ttataccctt 120
 ttgagttttt tttttcttct cttttttttt tncnccaaaa tcctnatttc ccccgaaantn 180
 nanacnagen aagatcnctt gnggggnatt tganatttct ttttttttctn aagtnnttgn 240
 aagngnggan ncnagttngn gagatataaa nagg 274

<210> 4470
 <211> 267
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559551H1

<400> 4470
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 gtataagatc aataaacaaa gaaggcgctg aacaagccaa aaagttcggg gtagagcagt 120
 ttgaaatgcg acatttttctg aaagatcgct catttttggg aaacctgaat ctaggagaag 180
 gtgctaaaagg agtatacatt tcaatcgatg tggattgtct tgatccaggg tatgctgtag 240
 gagtgtccca ctatgaatca ggaggtc 267

<210> 4471
 <211> 277
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700559552H1

 <400> 4471

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 ntattttcat cctgtctact cttcttctct cctctaaact ctctnttcca ttcttgcttc 120
 cnttggtgggt tgtntgagtn nnccttcctt caatttaatt ganagatggc ttgcntggta 180
 tctcgctcgg gaaggggaatt gcagaggtac aacaacatgg gtggccggca agttgttggg 240
 tgagttcggg cgctattgtg tcttattgag tctgcga 277

<210> 4472
 <211> 277
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700559553H1

 <400> 4472

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 taacaggaga taataaaacc acttgtagac cagcaaatac aggaagtgtt ttggacctta 120
 atctcccatc ttttgctcta tccacaactc gctcaaagta tattagtgcc acttttagta 180
 gaactgttac taatgttggg tcagctaaat ccatatataa agccacagta actacacctc 240
 catcatcttc ttccttaaac atcaaagtag tgccaga 277

<210> 4473
 <211> 279
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700559556H1

 <400> 4473

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 gagganttnng agaatagntg tggctggggg tgctaagttc aatttgagaa gaggcaatgg 120
 ttctnctcat aatgttgtca atggntatag cngtgatgga gatcttntca gaattagcaa 180

Sequence: 700559559H1

aagtgngtgt ttttcggcgg tggtgaggt ggatagagac ccttcttgcg ttnatncac 240
cactttcaac attctggctc cgatttaca ancngatng 279

<210> 4474
<211> 287
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559559H1

<400> 4474

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ttatgatttg angggntaca aaatcagtgt tgcaatggca ganaaatctg caccaagagc 120
tccacctgca tataaccaag ggggcaatag ggggtggctat ggtggagata gacgcagaga 180
cnattatagn gntggangtg gntctnggcc tnataggcgt gatcattatg gaaatcggtc 240
tcgtccatac tganagcttn gaccntgaac gtnttatgta ctatgaa 287

<210> 4475
<211> 100
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559561H1

<400> 4475

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ttntttaatc aatgtantga attggnnttg tntttncna 100

<210> 4476
<211> 281
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559563H1

<400> 4476

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tctggccgtn gcttcttctg ccgagaagaa gctggagaga cttcaggaag aggaactagt 120
ggagaaacct tttgaacgga aacaaatgaa aatcagggtc cctgagcgtg gaaggagtgg 180

aagatctgtt gtagcaatta ataacttga atttggcttt gaggataaga cacttttcaa 240
aaaggcaaatt cttacaattg aaaggggaga aaaaattgcc a 281

<210> 4477
<211> 282
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559564H1

<400> 4477

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aatggttacg ttcaggtttc accagtacca ggtgggtcggg agggctctcc caacggaagc 120
agatcagcat ccgaagatct accgaatgaa gctctggggc accaacgagg ttgcgcgcaa 180
gtctaagtgc tgggtatctt tgaggaagct gaagaagggt aagaagagca atgggtcaagt 240
tcttgctatc aacgagattt ttgagaagaa cccaaccaag at 282

<210> 4478
<211> 277
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559565H1

<400> 4478

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ctcggctgtn ctctncaaac cgcccggttc actcctttgg ttaaaaaccc taagcttgat 120
acgttttatt atgttgagct tctcgggttt agtggtggcg gcgcgccggt tcgggggatt 180
tcggcttcac tttttcgggt cgactccacc gggaacgggg gtgttataat tgactcaggg 240
acttccgtca cgcgcctcac gcgccctggt tatgtgg 277

<210> 4479
<211> 274
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559566H1

<400> 4479

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caggagcctt tacatgcttg cttgatcaaa caggagtata tgattctccc gagtatgctg 120
atgttgaatt taaaccagat ttcaaggtga cttcccttga tgaagttcac tcagttctga 180
aggaaaattt tgatttgtca ccatgatgtc aaggattgtt aacgtgaacc attattttgt 240
ggtttatgct tgagatatgg aggaggcata tatg 274

<210> 4480
<211> 271
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700559567H1
<400> 4480

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aanannactn gnttntcaan tctacattgg nctgcnccgn ccatgcctca agcttgattc 120
tttcaattct caatcttntc ctgtcttcga ccccaatctt cgcctatccc tctntcctcn 180
nagaccctca cgcgccatcg tcgccatggc aggcaccggc aagttctttg ttggggcaat 240
ggaagtgnaa ggaacaaaag actccatcag t 271

<210> 4481
<211> 275
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700559568H1
<400> 4481

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tcatttccac cgttcatgga tccngtaagc gtgtggggta acacgccctt ggcgacgggtg 120
gatcccgaga tccatgacct catcgagaag gagaagcgcc gtcaatgccg cggaatcgag 180
ctcatgcct cgcgagaactt cacctccttc gccgtcatcg aggcctcgg cagcgctctc 240
acgaacaaat actccgangg catgncgggc aaccg 275

<210> 4482
<211> 271

<212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700559569H1

 <400> 4482

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 atggccttgc ccttacagca gccacttcta gctgccaaagt tcacattgna gcttatcttc 120
 tgccacacgt acctcagcag gtccttgcag ctcttagtgt tgaaattctt aaggctgctg 180
 gtgagcgcag gatggatctc ttgatgggtg agcatttctt ctccaatctg anttcttang 240
 tgatcctgca gctacttatg ctgttgca t 271

<210> 4483
 <211> 243
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700559570H1

 <400> 4483

 aagcatcata aattcatagt ctttcgggcc anccttecta cctccgctct agtgtatgcc 60
 actctggata attatcatac ccccttctag gcatagttct tctccctctg ttctctattc 120
 tacactgtga aaccaagatg aaggtagcat ttgtagctgt tctacttatt tgccttgccc 180
 taagctcctc cttgttcgag gtgtcaatgg ccggttctgc tttctgctcc tccaagtgcg 240
 cga 243

<210> 4484
 <211> 271
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700559571H1

 <400> 4484

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 tgcccttatc aaggcctttc tggactccgg tgccaaagct attgtttgtn cttcaagtga 120
 acctccagag totcagtcga tcaactgttg tggtcacata gagggaatg tgatggaaaa 180
 tgggaagttt gaaattggag aagatgaagc agatgatgag aacgtaccgg ctagtccggt 240

aagcgactgg gaagatagtg acgctgagag a

271

<210> 4485

<211> 273

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559572H1

<400> 4485

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aggtgccttg tgttgctggt gtggagaata tgtgtcattt tgatgctgat ggaaaacgat 120

attaccatt tggcagaggt tcaggttctc aggttgttca gcagtttgga atacctcatc 180

tatttgatct ccctattaga ccaactctct ctgcttctgg agacagtgga atgcctgaag 240

tggtagctga tcctcaaggt gaagtttcca aga 273

<210> 4486

<211> 276

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559574H1

<400> 4486

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gttgaatcgn accacaacag ggtagcgagt gttgggggtca ngatcaacag caaccactga 120

nccgngcct ttgtaccagt aagattcctt cctaagaatc ttcggccttc ataaaaccaa 180

gcgcacgctt ccgccactca ctctacccc tcctatcccc cactttcaag ccatattctt 240

cttcagcttc ggccttagtt cccgaacttg atatto 276

<210> 4487

<211> 266

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559575H1

<400> 4487

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ccaatgcact caaagtctct tctacctcca gacctcatct cttgcatcct ttttctttct 120
ccagatgctt gtcttccgct ttggatggac ttaagtatgc agattcacac gaatgggtca 180
agcacgaagg ctcagtcgcc accattggta tcaactgacca tgcccaggac catcttggag 240
aggttgtgta tgtggagctg ccagaa 266

<210> 4488
<211> 275
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700559576H1
<400> 4488

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atgacaaaag aagattcaaa nttgtctttt tgaagtatgt naaagttgtg caatttcttt 120
ntnttttctt ttgtttctct agtttttctt ttctcaaagg actgatttga aacaatcttt 180
atccttatgt nccatttgat acacagaatc gattcatgtt tggggatgat gatattccca 240
ggaatataaa atgtattcag ttatgttcag aaaaa 275

<210> 4489
<211> 277
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700559577H1
<400> 4489

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atagaactgg agttgttggg gctattgaaa aagaaactcc tgcaagttca cgtgtgtttt 120
ctaaagctgg acctccaaaa tttgaacttc aaatgggccg caaatggggtt gttgagaatc 180
aaattgagaa gaaagacttg gtcattgaag attgtgattc aaagcagtct gtatatattt 240
atggatgcaa aaactctgtt ttgcaaattc taggcaa 277

<210> 4490
<211> 279
<212> nucleic acid
<213> Glycine max

Sequence "GCTGCTGA"

<223> Clone ID: 700559578H1

<400> 4490

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aaccacatt ctctgtcttc cctccctcc caaaccctc tttctctgcc gccactctct 120
gctccgttac cgttccactc cgcgactcac atgtaaggca gcccaagttt cggtcgccga 180
agagtcgtcg gcgtccggcg acaactgggt tccggtgggt cctctgtctg ctctgccgaa 240
gggggagcgg cgcgtggatc attcaggacg gcgagacca 279

<210> 4491

<211> 280

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559579H1

<400> 4491

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acaatggcct ctgcatcagc atctctgctc aagtcttcac ttgttcttga caagtctgag 120
tggtgaagg gacaaacct tcgcaacct tctgcatcag ttgtgagatg caaccccacc 180
accccatcag gcctcaccat cagagctgggt tcctatgctg atgagctcgt taagaccgag 240
aaaacagtgg cttcaccagg gaggggtatt ttggccatgg 280

<210> 4492

<211> 285

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559580H1

<400> 4492

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cctttgttct ctccgtacaa cattcatcac accctgattc tgggtcattt aaatccccga 120
atcaggggct cganctcgag ccgattcggc tcgaggcctt acaaaacaag tttttgtata 180
aagcagcctg aaagagtttc cctttttcct tgcagatcat ttcagcaata actggaggga 240
ttactgatct ctcttttaat gcagttgggt atgcttggca gacag 285

acttgccgca atgactctga tntctgntgt ccttggacga acctttcatt atgttgatga 180
aatcttgcca ttcaggtttg gagaaactga tttaccatt gatgatattg ctgctgttg 240
cctattggtg tactttgggg tctctaccct 270

<210> 4496
<211> 271
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559586H1

<400> 4496

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gaatgatgca gtttctttac aaggagtaca tatgaaagg gatggaatta atggaggaga 180
cttgcaatat tttggtaaag atgcatttca naatgagctt gatagaccta tggatcactc 240
cttcttttga tcaccctta gcatgtcatt a 271

<210> 4497
<211> 272
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559587H1

<400> 4497

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gcaaccatgt cgaccaagca aggtggaaaa gctaagcctt tgaagaaacc caagtctgat 120
aagaaggatt acgacgaggt tgacatggct aacattcaga agaaaaagga agaggagaag 180
gcgctaaagg agttgaaagc caaggcgcaa cagaaggga gctttggagg ttctgggctc 240
aagaaaagt gaaaganata agggctcttt at 272

<210> 4498
<211> 273
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559588H1

<400> 4498
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 ttctcatcta ttgtttgttc ttcgttcaca accattatca tcatcaccct ctttcatttc 120
 tctttcctaaa cctcttcttg tttcttcccc ctatgctgta tctacacccc ttggcatat 180
 ccaagttcca ccgcttcgaa aacctctctt ctctacttcc tcttccccct cccttaccgt 240
 ttctcaagat agtgaagaat tggaagaaaa aga 273

<210> 4499
 <211> 274
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559590H1

<400> 4499
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 cacanagcaa cactttccat gtccatgtct ctgnetcttc ttcttatctt ctcttcgccc 120
 cacctncca cctctctctt ctttncaact ccaactcttt cttccctctg cccttctttc 180
 ctttccaaat taccaaagtc cccctctccc ctcatgtttt atgccacagg gacgcctgca 240
 gcttcgaagc aaggtcacct cggagtcctt gaag 274

<210> 4500
 <211> 274
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559591H1

<400> 4500
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 tgnttcntgt canctctcca tccttcgaag anncattnnc canaatctac acggnacctn 120
 gcntgcagaa gaagtggtag aacgttttgg gaaatcatga ctanaggggn aatgccnagg 180
 cncaaantag ccattgtcctt agatacagag ncaatagatg ggngtgcttc agatcatata 240
 ccctcaattc agaaaatgta gacttctttt ntgt 274

<210> 4501
<211> 274
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559592H1

<400> 4501

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aatgtcacia catagtctgc ttccttcctg gcttccagg accccttct tttctacttg 120
aaactgggta cgtggaagtg ggtgaaactg aagcagagga gcacgcagaa ctcttctatt 180
atattatcga gtcagagaac gatcctaaag ggaaccctct cctactttgg ctaaccgggg 240
gtcccgggtg ctctgctttc tctggccttg tctt 274

<210> 4502
<211> 275
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559593H1

<400> 4502

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ggnaagagat tgtttggtg tgagttagta tggctggaaa aggcgagggt cctgctatcg 120
gaatcgattt gggaacgacg tactcttgcg tggcggtgtg gcaacacgat cgtgttgaaa 180
tcatagccaa cgatcagggt aacagaacta cccatccta cgtggctttc accgacacag 240
aacggttgat cggcgatgcg gcgaagaacc aggtt 275

<210> 4503
<211> 279
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559594H1

<400> 4503

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gtnttggtgca tanccttana ccatgtcatt gcctaccact actagtggtc actcatctat 120
ttactctgca cttacattgc caagaaccac ccaaattcac ccaaccttgt tttctccac 180

caccaagttc ttttcttcca aaagcccctc atattcaggt ctttccaatt gtttctcaaa 240
cacccttttg tcaagacctn ngngnnnttg ctgtcaagg 279

<210> 4504
<211> 285
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559596H1

<400> 4504

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atggttacng ttcagggttt caccaggtac cagggtggtcg ggaggggtcc tcccaacgga 120
agcagatcag catccgaaga atctaccga ntgaagctct gggccaccaa cgaggttcgc 180
gccaaagtcta agttctggtg ttttttgagg aagctgaaga aggtgaagaa gagcaatggt 240
caattttctg ctatcaccga gnttttgaaa gaaccaccca agttt 285

<210> 4505
<211> 296
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559601H1

<400> 4505

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ccacanggtc cccangatgg ncattgcaag acnattggca cggcgtggng tgatngtttc 120
canattcacc acccaaaaa angcatcacg anncaattct gtnctncnc gtgatgtttc 180
atcaggcctc ccaatccggc tagtacaatc cattttccat ccaaagaagc aggactacct 240
gaagggtgtga gaatttgga atggnagcct caancgattt gtacaaaana ttccac 296

<210> 4506
<211> 296
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559603H1

<400> 4506

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ctctgcntcc tctncccat catcgtttcc ntaggatgtc tatntgcan ttccattgca 120
aaggnggaag ccaccaagtt ggggacggtc attgggattg atcttggaac gacctattca 180
tgtgttngtg tttacaagaa cggccatggt gaaatcatag ccaatgacca aggtaacgta 240
tcaccccttc ttgggttgct ttcaccgaca gtgagagact cttggggagc tgccaa 296

<210> 4507
<211> 299
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700559604H1
<400> 4507

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atccccagaa aatggnantn cggccggcga gtcctccgtc ccgctcccnc cggcgaacct 120
ttgaagccca aacaggncct taactccnnn nnnnnnnnnn nnnnnnnnnn atcgtaacct 180
accaacgccc tggttcttcgg gctgttcttc tcggtggcgt acttcctcct ccaccgatgg 240
cgcgagaaga tccgcaactn cactcccttc acgtcgtcac gctctccgag atggccgnc 299

<210> 4508
<211> 298
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700559605H1
<400> 4508

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tcaganngtg tgaagatggg ggcgggtggc cgaactgatg ttccgnctgc caacangaag 120
tcagaggttg acccnttgaa ggcgggtgcca ntngaaaaac ctccatntag tctcagccaa 180
atcaagaagg tcannccacc tcaactgntc cagcgttctg ttttccgctc atnctccnat 240
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<210> 4509
<211> 298

664426760

<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559606H1

<400> 4509

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atattgatat tggaagcaaa gacacaggtn tcacaaatgg agcagtggta aaatggccct 180
tcatgaaçaa agtatatgtc catcctctnt tgatgtcatt caatcctcct caggtgaatt 240
ctgtgaacca tcctcatggg atgaagatgt tttcagttcc caatcaagca atttcagt 298

<210> 4510
<211> 299
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559607H1

<400> 4510

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ttttctnnc nctcaacaaa ttctatnnet actccaattc tctgcgctgc tctgcctccg 180
tggaagacac cgaatgggat tgggaagatg gcaaaaccat ttccacgtgg tcgatgaanc 240
agagcttctc ctcganattc tcaagtctcg cttaggtgat gctctgcgtt tggaggatt 299

<210> 4511
<211> 294
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559608H1

<400> 4511

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gccgagttcc gggcagaaga atggatcagg aggttgtttt cttagtggaa ggaaattgag 120
ggtgaaaaag gagagagcag caattggagg acgatcgatg ggactacag tgtgcgcagt 180
tgctgagcct gacagacctc natggttccc aggcagcacc cncctccat ggcttgatgg 240

cactctacct ggagacttcg gctttgaccc tcttggtcct ggatctgacc cgga 294

<210> 4512

<211> 290

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559609H1

<400> 4512

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tttaatttca tagactgggt aatgaattta atcaattnat naatctggat tttnatgttt 180

tntcaaattg attgagtata caatctgttg aatataaacg gtgctgttga tttggaagtc 240

aatgggtgtg gttttatttt actggattgg atcacttgng atctgtgagg 290

<210> 4513

<211> 292

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559610H1

<400> 4513

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gngcagcgcc cccgcactgg ccattaaggc gagcgtggag aagacgaaga ggagggttcga 120

caactacgcg aacagggggt gctgtgcggc ggcgatgggt tgccgcacct gatcgtgagc 180

ggagaccaga ggcactgggg tgagttcatc acaccggaa tactattcct gtacatctcg 240

ggatggatcg gctgggtggg tcggagctac ctgattgcga tcagggacga ga 292

<210> 4514

<211> 290

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559611H1

<400> 4514

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ataaccgcat caggtctcca aggtgaacag cctctggtcg atggaacaat gtaggcaagg 120
gaagtcggca aaatggatcc gtaacctcgg gaaaaggatt ggctctgagg gctgngcacg 180
ggggteccag tcccgaaccc gtcggctgtc ggtggactgc tcgagctgct tccgcggcga 240
gaggggtcgt cgcgtgccgg tcnggggacg gattgggaag ggncccttcgg 290

<210> 4515
<211> 292
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559612H1

<400> 4515

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ggtgaaggcg gagagcgacg ccgggaaggt gaccgtgacc gggaaagtgg accccacgaa 180
agtgagggac aacctggcgg agaagataag gaagaagggtg gaatggtgtc tccacagccc 240
aagaaggaga aagagaacga gaaagacccc aaaccaaca acaaatccga ga 292

<210> 4516
<211> 284
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559613H1

<400> 4516

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angacgacgg cgcnttnttc cactattcag aagcgccgga gtacngaaac ggagcngggt 120
gccccgttnc gtcaacncgt gnttcctcc cttcatggga ncttctctg gtcnacatcn 180
ncatgannct cgacnccggc nacttccgcy gcnncatcgn cgccgtgaac tccgtcctcc 240
gccactnctc gtgcncggaa aacgtcttct tccacttcac cgcc 284

<210> 4517
<211> 281
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559615H1

<400> 4517

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tatagtgaaa gacttcgaaa atagtgactt agagtcagaa caatgatgta aatanacata 120
atgagaatag cnaaagttgc catcatgtaa tttctacggg gaaaganaac atgtatctnc 180
tactaatcct ctttcctgac agtgctaagc cacagtgcct ttttaacttta gaaagatcag 240
atttatataa ntcattctga agaagtcctt gaagctcaaa a 281

<210> 4518

<211> 297

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559616H1

<400> 4518

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aaacaaagtt tcaagcagtc ctattgtgac taatagaaca gctctttgta gatcaggtga 120
aaaacactat ttttcctcgt caacaagggt caatagaata cagttgtcaa gacatagact 180
ggaacatgga catctgaact atagatgtct ccacagagag agatcaacct tattcaatga 240
ctgggttttgg ttcataacgg aaaacctgtt ggtntntctc caagaagaaa tcttcta 297

<210> 4519

<211> 295

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559617H1

<400> 4519

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tatgtaattg gttagattgg aagtgttng gggtaatttc atagactgaa gnttttggcn 120
ttttaatttc nttagactgg taatgaantn aatcaattta ttnatctgga ttttnatgtn 180
ttgtcaaag gnttngntan acaanctgtn gaatataaac ggtgctgttg attttggag 240
nccatgggtg tggtttgatt tacgnggatg gatcactggg natcctgaag aaccc 295

<210> 4520
 <211> 296
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700559619H1

 <400> 4520
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 cccgagctcg gtttgaggag ttgaacaatg acttgntccg gaagaccang ggtccagtga 180
 agaaggctat ggaagatgct ngattncaga agagtcagan tgatgagatt gntcttggtg 240
 gtggaagcac aaggattcca aaggnacaac aacntttgaa ggactacttt gatgga 296

<210> 4521
 <211> 294
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700559620H1

 <400> 4521
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 ctgtggccgt tcttggcagc agtgaggggtg tcaactggaac tattcacttc gttcaggagg 120
 gaagtgggtcc aaccaccgta actggatctc ttgctgggtct taagcctggt ctccatgggtt 180
 tccatgtcca tgccttgggg gacactacca atggttgccct ctcaactgga tcacatttca 240
 atcctaataa caaggagcat ggtgcccttg aggatgagaa tcgtcatgct ggtg 294

<210> 4522
 <211> 294
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700559621H1

 <400> 4522
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 aatagtgaag gngtaaaaac taaaaganna gcgccncctt caaaaaagag gaaaattgcc 120

ncattacccc cncaacctaa agttatgcc a ctacaaaga aggttatgtc ggatcaagag 180
aagcatgatac taggtcgaga nttggagtct cttctgggag aaatgcctat gcatatcatt 240
gattncttaa aagaacatag ttcaaagtgt agagaatgtg gagatgacga gatg 294

<210> 4523
<211> 90
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700559622H1
<400> 4523

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actnngaanag tgtgccata tgancctcng 90

<210> 4524
<211> 292
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700559623H1
<400> 4524

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aagcttgaaa aggtgggaga agggacatat ggggaaggtgt acagagcaag agagaaggcc 120
acggggaaga tcgtggctct gaagaagact cgtctccacg aggacgaaga aggtgtccct 180
cccaccactc tccgtgaggt ttccattctg cgaatgctac tctcgcgac cccatgtcgt 240
taggttaatg gatgtcaaac aaggtcagaa caaggaaggg aagacatgct ct 292

<210> 4525
<211> 281
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700559624H1
<400> 4525

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tttgactgaa gaccttccat caatccttca taatttgcen agtgggtgtg ttagacactc 120

attacaagat ttggttttgt catttaatca aatcaactggc tctttacctg acctttcagn 180
 attctcatct ctaaaaatat tggttctcga tatgaatcaa ttaagtggaa acanacctga 240
 aggnntccgc ttaccaattc atttgggaatc tctgtcaatc c 281

<210> 4526
 <211> 291
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559625H1
 <400> 4526

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 agcttggtt tatttcccca atggccgctt gtggctatan anctgcngcc aacttcaatt 120
 atctcgttgg cgccagaaac atanccaaat tctgttcttc agacgccaca attncgtttt 180
 catntggcgg gagcgactca atgggtctta ctttgcgacc cgctccgatn cgtgtctcta 240
 agaggaacca tttctctccc ttgcgtgtcg tttgcgtcga ttatccacgc c 291

<210> 4527
 <211> 291
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559626H1
 <400> 4527

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 gggatctctc ggtcgtgccc tttacgtctc cccaatccag atttgggaca gcgaaaccgg 120
 caaggtagcc agctgggcta catcctttaa attcaacatt ttgcaccca acaaatcaaa 180
 ctgagctgac gggcttgctt tcttcttggc acccgtcggg tctcagcccc aatccgacga 240
 tggatnnctt ggtcttttca acagtccctt aaaggacaag tctctccaaa c 291

<210> 4528
 <211> 289
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559627H1

<400> 4528
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 anatctatgg taccgtaaat ccagaacctg attcantttt gttagaggct gagaagtgga 120
 agaaaatgat ggaaanatca tctagagggg atttgaaaga gangctttat atgtgtgcaa 180
 aagcaatggc tgtgaatgat atggagacaa ctgattggct ggtgtctgag ttgcgtaaga 240
 tgggtgccat ttcgggcaat ccgattcagc gactgggagc atacatatt 289

<210> 4529
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559628H1

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 gattttncat ctccntgtat ctcccacat tgtcaaactc ctctctctcc cccaccctcc 180
 atccaatggt acttnggacc caaaacaagc aatggcccta gaatcccnca acatccccac 240
 ctcaaaggac ccttgcgccc aaccctcctt ccacaatgcn accctctgc 289

<210> 4530
 <211> 290
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559629H1

<400> 4530
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 ccaactggtca cctgatttac aagcntggag gcattgacaa gcgtgttatt gagagggttg 180
 agaaggaagc tgctgagatg aacaagaggc ctttcaagta tgcttgggtg ctggacaaac 240
 ttaaggctga gcgtgaaaga ggaatcacca ttgatattgc nttgtggaag 290

<210> 4531
 <211> 280
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700559630H1

 <400> 4531

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 atggaaatgc ctgaggagga agagtttgnc agtccgatcc tgaagggtng ggaggagaag 180
 gagattggga aaatggggct gaagaagaaa ttgctcaagg aaggtgaagg ttgggacacc 240
 cctgacagtg gagaccaatt gaagtgcatt atactgganc 280

<210> 4532
 <211> 245
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700559631H1

 <400> 4532

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 cagctcantt gtgccggtgg tggatgatgc taagaggacg gaggaattga nggaaattag 180
 acaaatgact acggnacgna ttaacgaaga ggttgctgac ctaaggcg agcttgctcat 240
 gcttc 245

<210> 4533
 <211> 298
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700559632H1

 <400> 4533

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 tcaagtctca cactcaccac cgcaagggtc cggcgaggtt ccgcagcctc gacttcggcg 120
 agcgcaacgg ctacctcaag ggcgtcgtca ccgacatcat ccacgacccc ggtcgcgcg 180

agaagcaaaa ctgaagggtg ccataaacgg atttgaagg attggaagga acttcttgag 60
 gtgctggcac ggtccgcaaa gactcccctc tngatgtcat tgccatcaac gacaccggtg 120
 gcgtgaaaca agcctcncac cntctcaagn acgattcgat cctcggaacc ttcgatgctg 180
 atgtcaagcc tgttggcagc gacatcatct ctgtcgatgg aaaggaaatc aaagttgtct 240
 ctgaccgcna ccctgccaac cttccttggg aggatttggg gatagacttg gtg 293

<210> 4537

<211> 291

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559636H1

<400> 4537

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 gacttttggg gtactagtat atgcctcaag ggacattaac gcaacacctg tntgattggg 120
 gtgaaaatgg ttgtgctcct ttgactngga aacaaagggg agcaatagcn ttggatgtag 180
 ctcgggggagt ggaataacttg cacagcttgg ctcagcaaag cttcattcac agggacttaa 240
 agccctcgaa catattgctg ggtgatgaca tgagagccaa ggttgcagat t 291

<210> 4538

<211> 192

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559637H1

<400> 4538

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 angcaatttc tgncccana nataatgccc gggagaagga gaaggaagtt gaaatcgttg 120
 agtgatacaa ttaccgacag cagacgggca tcagtggagg tggaaaatga atatthagag 180
 ctgcaaacnt gg 192

<210> 4539

<211> 294

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559638H1

<400> 4539

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acatttgcag caaaagtcta cttcagtcca tttccaaggc tttggttttg gacctgttgg 120
agctaaaaag gncacatgct ccctncaagc tgatcttaag gacnttgntn anaaaggngg 180
ttgatgtacc caaantgnnn ggattcngcc ctnggcaacn ntgnccncng ttgtncnngg 240
gggcaaatgc nnaaggngtn cccaaaaggn taaccctttc gacgaantcc aaac 294

<210> 4540

<211> 288

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559639H1

<400> 4540

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cntcaactct ncctctgnca agtgntcncn cgaccacatn cccaaacagt tnaganagga 180
naatctcaaa gatggattga tggannacta cnagaatgca cctcnatctc natanggcct 240
ttntccttca naaatggaca tgntcatgac agnngatcat cctatncc 288

<210> 4541

<211> 288

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559641H1

<400> 4541

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tgtatattca aggagagaga tctgataagg cttcttttggc tggccgagat gacaaagcat 180
ccactatgta tggtcagggtg tctcatgctg ctgagcccaa cagtactcca gagtcatcac 240
ctgtagccac aaatgatgat ggttttagagg gtgctggggtt tgtgtcaa 288

Sequence = 60000

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cgtcaagata aagaggggtg cactcctctt cattgggctg ctattagggg caacttggag 240
gccagtaccg tgtagtaca ggctggcaag aaggaagatc ttatgg 286

<210> 4545
<211> 288
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559645H1

<400> 4545

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tcggcaaacy gacggcgggc gcacgcgtcg cttctagccc ggattctgac ttagaggcgt 180
tcagtcataa tccaacgcac ggtagcttcg cgccactggc ttttacaacc aagcgcgatg 240
accaattgtg cgaatcaacg gttcctctcg tactagggtg aattacta 288

<210> 4546
<211> 286
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559646H1

<400> 4546

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ctgttgtaac ctcatattac tgattatttc cagacctacc agttcg 286

<210> 4547
<211> 290
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559647H1

<400> 4547
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 aatcctggaa accctactgg tcaatgcctt agtgaagcta atctaagaga ggttttgcaa 120
 ttctgtnatc aagaaaattt agccttgctt ggagatgagg ttaccagac aaatatatat 180
 caggatgaac gacccttcat tagttctaga aaggttttga tggacttggg gccacctata 240
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<210> 4548
 <211> 65
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559648H1

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 agtga 65

<210> 4549
 <211> 291
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559649H1

<400> 4549
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 ttgtggcctc tggcgttncg ntcgcggtt ctactctcac agccgaagca gaaccatctt 240
 ccaaaggtn tgaagattg ccgtacaanc cggaagggtta caatattggn c 291

<210> 4550
 <211> 290
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559650H1

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 tcttctgacc tgactaaaga gaagaacatc actgctgctg cacctcctgc taacgaccca 120
 gcaaagccac ctgcaaaggc acaagtggtn ggggtggcnc cagtgaggtc ttttccgnaa 180
 gnaacattgt tcnaaagngn taccaccatn gaggcngaen aggcggcncc aagtagtnca 240
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<210> 4551
 <211> 291
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559651H1

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 ctccacggcg aggetaacct ctncctcaaa acgacgtcgc tccgctccct cgacggcgag 180
 gcctacgtca acgtccgcaa ngggaaaatc atccccggct acgagatcag cctcacactc 240
 aattggcagg gcgaancaaa gattcccagg gaaactcgct tcttaaagtc g 291

<210> 4552
 <211> 289
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559652H1

<400> 4552
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 ccnccccaac aaggcgtcgt gaagaagaag gagacaaggg gccgaaaacc caaaccaaag 120
 gacgaacacn ggaaggggtt gaaggaaggt agganntnnnn nnnnnnnnnn nnnnnnnnnn 180
 nnnnnnnnnn nnnnnnnnnn nnnagatcaa ccttcgggtg acgagaaata cacgcataga 240
 agtcccttgt tcttgncttc tacgactggn tcgccaacca caacctcgt 289

<210> 4553
 <211> 286
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700559653H1

 <400> 4553

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 atgttttagag gtagtgaaaa cactgccaca gttgcaacag aaagagccac aatcaagagg 180
 tggcagathtt ggtgataatg gtggtcgtgg tgggaactac aggtttggtg gaagagggtg 240
 aggaggcagg aatggttaggt tctccaatgg tgggtggcgt ggcggc 286

<210> 4554
 <211> 287
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700559654H1

 <400> 4554

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 ccatggcgan taggtgttgc aactcccaag aaaacttatg gcttccaaca acaatatncn 120
 nctcaagctg tggatttggc tgggggacac tcagctaattg gtgctgtggc ccaagggttc 180
 cattctgaag gggatataaa caacactact atatttgttg gagggcttga ttctgatacc 240
 agtcatgagg atctcagaca accattttng caatntggtg aggttgt 287

<210> 4555
 <211> 184
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700559655H1

 <400> 4555

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 taatcactat cacacacaat tgggtgtcatc tcaatttatg tgtcaccatc ctacttgtaa 120
 gtatatgggc tttgtatact tgnaagtaat atggactttg tatagcatac actggattgc 180

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184

<210> 4556

<211> 283

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559657H1

<400> 4556

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ggacgtgtgt aggttttccg tcgtatcaaa gattttccgt tcggccgctg aatcggacgc 120

tgtgtggaaa cgttttctcc cttccgatta ccattccatc atntcccagt ctccctcgcc 180

tctcaactat ccttccaaga aggagctcta tctcgtctc tcggatcgcc ctatcatcat 240

cgatcagggt aaaaagagct ttcaattgga gaaaaagagt ggg 283

<210> 4557

<211> 284

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559658H1

<400> 4557

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnaccttctc tttaatttgg gttccacaat 120

caaaaccaat ntnagccacc atcaagactt tggcatggag ccttactcca ttgatgggtgt 180

ttctncacaa actaactcca aattctacga tgatgatggc catgttaaac gaacagggac 240

cgtttggaca acaagctcgc acanaataac agcagtgggt ggtt 284

<210> 4558

<211> 283

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559659H1

<400> 4558

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taattcttat atgaattttg tnatataaat gttcaaata cnattagtat gtgtaagggt 120
 anagaattat gtttganata tacatataac atatctatac ttgtcaaata atggagttgc 180
 actgtggagt aaaatcaatt aacttttcac gttgaaagtg aagcaactca tcatggggatt 240
 tctacgttct tttatgtagt ttaggtagcc aatgtgcac caa 283

<210> 4559
 <211> 284
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559660H1
 <400> 4559

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 gagatcagac atgtcgagct gcagcatcga tgttgccgct gagcaactct gctacatccc 180
 ctgcaacttt tgcaatattg ttcttgcggt gagtgttcca tgcagtagcc tgtttgacat 240
 tgtgaccgtt cgatgtgggc actgcaccaa tctatgggtcc gtga 284

<210> 4560
 <211> 286
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559661H1
 <400> 4560

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 ctccctccg tctcaagca tccctncacc atnctcgacg gtccctcaag ctccgcccgc 180
 ggaaatccag acgagatcgc gaantgtttc cgcatttggt cggacaacct tccgcccgc 240
 tggcgccgag cgggtgcggtg cagacgcaga agaagttgaa gattgg 286

<210> 4561
 <211> 291
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559664H1

<400> 4561

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actcctgatn cagaacaaag aagctacttc aaatctttta cctgtaaant ttagtggact 120
ttcaaaggct gtgaagaatg gtgatactat ttttattggt caatacctgt ttactggaag 180
tgaaacaacc tcagtgtggc tagaggctag cgaagtgaat ggtgatgatg tcacttgtgt 240
cataaaaaat tctgctacnc ttgctgggtc actgtatact ttacatgtct c 291

<210> 4562

<211> 291

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559667H1

<400> 4562

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tgggcggaaa gctgcttcga gacgacgttc tccacgctcc gtncctggcgg cncggactcg 120
ctccncttcn cgctcncgaa ccgncgatec nccgaccga gncccgctct catcgaccgc 180
ganccggaga tcttcnccgn cctcctcnnc ntctcncgca gctnncacct tcnnngccgc 240
nacgcgangt ttctgnaagg aacgagctcg nctcccncc ngcggcgctc g 291

<210> 4563

<211> 284

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559668H1

<400> 4563

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tgataaagca tctgacaaat actanataca atcacacatc caactgaatg aatataggga 120
tcgagtgatc ttgccaacag ctacaaggaa acatggacga tacattggca cctgtgttaa 180
agtgttggt atgtctggtt taaaattttc tgcattgaat caattgaggt tgttgactgc 240
tatatctaca atagatgact gaactatccg gaaaagacag acac 284

<210> 4564
 <211> 287
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700559669H1

 <400> 4564

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 caactcactt cccttcctnc cctcccttct tctcctctc cacnttctcg caaatttccc 120
 ctcactttcc gggaaaaaaa cagaactcca atcacacctc acaagcnccc tttttcagca 180
 aggctacca ccaccagagt ggtgttggtg aagtctcagg ccacagcacc tgctttcttct 240
 gaggtgtgg cagtgcacc tgtgtcttct gagatgaagg catgggt 287

<210> 4565
 <211> 273
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700559671H1

 <400> 4565

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 ggatgcaaga gttgntgtaa atcccttaat attcattttc gatttccacg aataanat 180
 acnatttgtg cncacttctt gttccatctc gtcacattca tccaacctat tntccaattc 240
 aagatgacnc aacaaccaga ctttagttgg atg 273

<210> 4566
 <211> 281
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700559672H1

 <400> 4566

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ttgcttttga ggatggaaca agtacttctt atgcaatctc tagttcacag gagaggggac 180
 agatgtttat tggctcctgga gtggatgttt ataaagggtca aattgttggc atccatcagc 240
 gacctgggga cttgtccttg aatgtntgca agaagaaagc t 281

<210> 4567
 <211> 283
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559673H1
 <400> 4567

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 ctccggtgtc ctctccgaac cgccegggtc actcctttgg ttaaaaaccc taagcttgat 120
 acgttttatt atgttgagct tctcgggttt agtggtggcg gcgcgccggt tcgggggatt 180
 tcggcttcac tttttcggct cgactccacc gggaacgggg gtgttataat tgactcaggg 240
 acttccgtca cgcgcctcac gcgccttgggt tatgtggcgt taa 283

<210> 4568
 <211> 185
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559675H1
 <400> 4568

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 aaacccatna ttattgatta tngattgana anaacatttg ggtttcannn ncattccaag 120
 ttgtngcatt nntcaacatg tcntnagctc actgctgaac cctggnctn tctttctttg 180
 ccccc 185

<210> 4569
 <211> 216
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559676H1
 <400> 4569

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acacttccag cacccttagt ctggaggggg ggccgggcga angagcccac tccgaaaaat 120
gtttgcggtg gcgtccatcg ccgccggcat acagttcggg tgggctctgc agctgtctct 180
cttaaccccc tacgttcagc tcttaggagt ccccca 216

<210> 4570

<211> 279

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559677H1

<400> 4570

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gatgacaggt cttcagtgtt ttctcaatg tccttaacct atggttcaat atcaagctct 120
gangcaggaa caggatcaca aactggacga acacgggtgg atgggaaaga gttttttcgc 180
caagtnagga accgtttgtc ttatgagcaa tttggtgcat tcttggcaaa tgtaaagaa 240
ttgaattccc ataaacaaac aaaagaggag acgctgcgg 279

<210> 4571

<211> 280

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559678H1

<400> 4571

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ntctgnaact tctgcatttc natacntcna cntnctngta attctattnc atcttntcng 120
ctgtatgcta ntnaacattg atggtcatca agtccctcaa cacattatga nggaagttgg 180
agacactnac aagagaantc tggcagaggn aagatcggtg ctgcatatgg cntctggtgc 240
ttctnntaat cacgaatgcg gtngtggtta tcttaaacta 280

<210> 4572

<211> 282

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559679H1

<400> 4572

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 cacaggcagg ttttaagaac acaagagttt agtcatgtct gggacattat tatggggtgt 180
 ttcctccctt ggttttagagg tttccattc catgggttac ttgattctat tcggagtgtg 240
 aagttcttag attcctcaaa ggccatgtct cgagatttgg gt 282

<210> 4573

<211> 284

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559681H1

<400> 4573

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 ccatcccacc gagcaatgga acctactcaa tgcattgaca tcnnataatt ctaccactaa 120
 ttcagcctnc acttatccaa tgganatcaa gcaccttggt gatcatgaaa nnaagatgga 180
 attggagctc acaaatgagt ccacttcaca actnagtgcc actgaataag tgctggntat 240
 catgtagtcg ttcatatgga gtngaaataa tgtgagttga atat 284

<210> 4574

<211> 284

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559682H1

<400> 4574

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 ttggctcgtc tccgggagaa aaattcaatg caagangcgc atcacactcg cgagaacagc 180
 ttcaatgaag caagtagaag cgagantggg agaaggtgct tgctccatcg gttgcacata 240
 accacaatga ttccaagaga gtaccngtgt atgtgatgct gcc 284

<210> 4575
 <211> 282
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559684H1
 <400> 4575
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 aatccgcctc acgaggggtca ccaacggcac gtgcctntgg ggggccgagg cccctactg 120
 ctggtcggca aacggacggc gggcgcacgc ntcgcttcta gcccgattc tgacttagag 180
 gcgttcagtc ataatccaac gcacggtagc ttgcgcccac tggcntntca accaagnngc 240
 atgaccaatt gtgcgaatca aggttcctct cgtactaggt tg 282

<210> 4576
 <211> 282
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559685H1
 <400> 4576
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 aagtacattg tngtcgtgct gctgatccaa cgtttgcaga ggtttctgtn ntgntcacag 120
 ttcacacaca aatggaactg aaactacttc taanaacggc tttaatgatg gtgtcacntn 180
 cngcaactgc agcagctgan tacattcgac ctgcgcctcg aaaaaccttc catctcccat 240
 ggcattctaaa cctcctcnt accctcaaca ggtacacatt tc 282

<210> 4577
 <211> 281
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559686H1
 <400> 4577
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 gtncctttacc aattttttct caaactcttg ctcttaattt cagtctttca gctttccttt 120

gctgctagga gactcaacca gctgggttcag gaccagtcac agttactcca ttaccacaac 180
 ggctctcttc tatacggcaa aatcgccgtg aacctaanct ggnatgggtca cttcaaacca 240
 tcccaaaaagg ccatcatcac cgatttcgtt acctcactgt c 281

<210> 4578
 <211> 280
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559687H1
 <400> 4578

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 tatgaaaagg gtgatatngc tatnnggaga naganaataa atgctaaatc ctgcaaaaga 180
 aagntcccca atgtttgtgg tntagataat gctgatgatg tgtggnacca aaanatggan 240
 ggctgnaaaa cccctntanc tgaggtaacc agcaaaaatg 280

<210> 4579
 <211> 279
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559688H1
 <400> 4579

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 gtagcatggc catgccatgg cgcaggctac caaagggtcc ctctccgaat gaaaactggc 120
 tatggtgagc gttcttcgga ggtaaaatgc gcaagtttta ggcttgctgt ggaagcacac 180
 aacatccgag cnttaaaacc attcctgaag agtgcgttga accaacaag gactacatta 240
 atggcgaaca atttagatca gactctaaaa cagttaacc 279

<210> 4580
 <211> 279
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559689H1

<400> 4580
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 ntcagccnnc acttanccaa ngganatcaa gcaccttggt gatcangana ttaagatgga 180
 attggagcnc acaaatgagt ccacnncaca acttagngcc actgaataag ntctggntat 240
 catgtagtcg ttcanatgga gttgaaataa ttgtgagtt 279

<210> 4581
 <211> 282
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559694H1

<400> 4581
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 gatagaaatc caaggaagaa gatgaagncg tttgccgtcc aaaacgtcgt cgctccatcc 180
 cacgatgaga ttagcgtggt ttgccccaaag ccccgccgcc tcggcctctn caacntcccc 240
 gtgaacganc ccctgtgag acccttctac nggcattctca gt 282

<210> 4582
 <211> 285
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559696H1

<400> 4582
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 acaggccatg caagggtgtg gaggtttcaa cttccaaaac tggcaagcat ggacacgcaa 180
 agtgtcactt tggtgcaatt gacatcttca ctgggaaaaa gcttgaggat attgtcccat 240
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<210> 4583
 <211> 301
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700559701H1

 <400> 4583

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 tgttttggag gattaatttg tagcagttag ccttgtcact gtagagaatg cctctgcaac 180
 tttttgatgg cagtgattcc gaaaatgagg acatttcaaa gatcaagata gacgagaagt 240
 atgctcgtag gtttgagcac aacaagaagc gggaggacct ccagcgtttt aggaattaaa 300
 a 301

<210> 4584
 <211> 293
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700559703H1

 <400> 4584

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 ggggtggaag tggcagggtc ttgaagactg ctgcatatgg acactttggc agagatgacc 240
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<210> 4585
 <211> 212
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700559704H1

 <400> 4585

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caaggccagc tccatctgct tctagtcctg cctccttcaa gactgtggct cttttctcca 180
 aaaagaaggc tacaccaaca cctccaaaaa aa 212

<210> 4586
 <211> 297
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559705H1
 <400> 4586

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 cactggactc ttcctcctac aagctcctga acgagatcgg cgaaggcgtg agcgccgctg 180
 tctacaaagc cctctgcac cccatgaact ccgcgcgcgt cgcaatcaaa tccatcgacc 240
 tcgaccgctc ccggccccgac ttagacgacg tccgtcgcga ggccaaaccc tatccct 297

<210> 4587
 <211> 287
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559707H1
 <400> 4587

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 agttgccgat caagtctgca caaattaccg catcnactga tttcactgag ctacaagaga 180
 aggaaccctg gctttcatct tctaaattgg ttgttaaacc tgacatgtta tttggaaagc 240
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<210> 4588
 <211> 287
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559708H1
 <400> 4588

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 ttacgacaa ggagcgaccc ggagttacat ggccgaagca gttgaatgct tcaattgagg 180
 tcgttgatcc tgagattgct gatattattg agcttgagaa agctaggcaa tggaaggggc 240
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<210> 4589
 <211> 302
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559709H1

<400> 4589

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 gtatctcaaa gctgctgcac tctacactca agccatcaag ctagaccctt ctaaccctac 180
 cctctatagt aatcgtgctg cagcactact gcaattggat aagcttaata aagctctaga 240
 tgatgcagag atgacaatca aattaaaacc ccaatgggaa aagggatatt taggaagggg 300
 ag 302

<210> 4590
 <211> 278
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559710H1

<400> 4590

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 tgggcaacaa tgatggcatg aatctctcag cccctcaaac cttccgctct aaggaaatct 180
 ccaagagcaa tgttgttgac gatatgggtc acagcaacgc catcctctat gagcccgggtg 240
 aacatccaga ccatgtgggt gtcattagta cgtgcctt 278

<210> 4591
 <211> 299
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700559711H1

 <400> 4591

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 aaaacttcca ggtagctttt ctttgaagag aaaagatagt gacacaacag tagaganacg 120
 agttttattgc tctgccgctg ctcaatcacc accaccagca tggccaggaa cagctattcc 180
 cgagccttct gatttcaaga catgggatgg gcaaaaacct atttctgtct taggatctac 240
 gggttcaatt ggaatcagac actgagtata gtggtgagt tcccagaaga tttaaagtt 299

<210> 4592
 <211> 282
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700559712H1

 <400> 4592

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 nnnnnnnnnn nnnnnnnnnn nnnnnngaca acatcccacc atttgtggct gccctctatt 180
 ttagtcccta gcctcaatca ntcattgccat caggtgctaa gaagaggaaa gctgccaaga 240
 aaaagaagga anaggaaact gaaattaaca caacccttca ac 282

<210> 4593
 <211> 297
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700559713H1

 <400> 4593

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 ctgatccaca acaagaggca ctgagagagc atttgttgat ttggatttgg aaggttccac 180

tttggttatg gaancaactt agtcccttc ctctctcttt attttccaca ttgtacaaat 240

gctatttcag ggtacttggt ggtagtgggt gttgacaaag atattgaaag ggaattt 297

<210> 4594

<211> 89

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559714H1

<400> 4594

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ccacacaaca tacgaccnta anananngt 89

<210> 4595

<211> 298

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559715H1

<400> 4595

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gtcgacgctt cccctgaggt tgaagcagag caacaacttc cctccgtcga tgacgcaacc 120

cagttgaaga aatcccaacc gcaggaggat gatgctcccg ttgtcgagga cgtgagggnn 180

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnna caaggaagac 240

gatgctctag gtggtgctga gggttcaaag cagagcagaa gtgagaaaag agtcgaaa 298

<210> 4596

<211> 298

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559716H1

<400> 4596

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gcacttgcag aagccgcttt ggatcgacgt acacaggata atgtcagcat tataattgct 120

gatttaggga ggacagactg gaagaatgcg cctctggagc gacaaaatac tatacttgag 180

ctgggtccaag ctcttgcaac cattggaatt gtgtccattg gaatctgggtt ttcattcacag 240
ctttcttttat agattaanaa aataccagtc atgtacataa aacagattat cattctga 298

<210> 4597
<211> 296
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559717H1

<400> 4597

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tagctagcta gcttccacca atttgaatca ccaatggctc gctctttctc taacgtcaag 180
gttctctctg ctcttggtgc cgacggattc tccaacactc tcaccaggcg tgggtacgca 240
gcagcgacac aaagcgcgac aagaggagga gtgcctccat canagcagat agtccc 296

<210> 4598
<211> 296
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559718H1

<400> 4598

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attntaattt gggggatcta aagcttggtt ctgggtgtga cgagagccta ttatatgaga 180
ttctctctag tctgaggtct gcatcaaccg acgctgcaag ttcattctct gtgcttccag 240
caatttccag cacaaaatca gttagcgaac ttctttcaga agttgacnag tgactg 296

<210> 4599
<211> 240
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559719H1

<400> 4599

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 cccctncaca ccgtcctcgc cctcgacgtc tacagcgaca agatcnaaca cctcctggat 180
 cccgcgatt cncacctccc ttgggtggc cgcatactt ccaccgctca catcaaacac 240

<210> 4600
 <211> 293
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559720H1
 <400> 4600

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 attggtggac aaaagagcga gaaaccttgt ctgaattctc caggggagat tccttctggg 180
 gatagtggga ccaatggatc agtgacaaac aaccaacaag tgaaccccgat acttgcagct 240
 gctgatacat ctaattctaa agaagaagaa aagctagcca ttgaaagatt atg 293

<210> 4601
 <211> 292
 <212> nucleic acid
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 <223> Clone ID: 700559721H1
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 gacatgggtca tacacaattg agagatgatg cccttgaacc cgctgatctc aatgacagga 120
 acatgattgt ggtggatggt ggtggcgga cgggtttcac cactcttggg attgtcaagc 180
 acgtggatgc caagaatgtc accattcttg accagtcacc ccaccagctc gccaaaggcca 240
 agcagaagga gccactcaag gaatgcaaaa taatcgaagg ggtgccgagg at 292

<210> 4602
 <211> 291
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559722H1

<400> 4602

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 ganaccatct ctntgttcca gggccgggta acattccgga ccagatcatc cgggccatga 180
 acagaaacaa tgaggactnc cgttctccag caattccngc tatgacanaa atttgcttga 240
 ggatgtcaag aagattttca agaccatact ggaaccccat tctcatccct a 291

<210> 4603

<211> 287

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559723H1

<400> 4603

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 aagggtggga gtgcaaaggt tggctgtcat attgctgcaa tgagactatc tccgactact 180
 tccagacata ccagtttgag aacctcttcg cgaanccaat tcgccggtgg cacatgctgt 240
 tggtttctgg gactaccgtt ctttcatcac cgctgctcat gtaccag 287

<210> 4604

<211> 237

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559724H1

<400> 4604

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 cccctcacac cgtcctcgcc ctgcagctct acagcgacaa gatcaaacac ctcttgatc 180
 ccgccgattc cccctccct tgggctggcc gcatcacctt ccaccgctca acatcaa 237

<210> 4605
 <211> 299
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559725H1

<400> 4605

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 atacactcta cgcttcacaa aaccttcaaa cccaattcca cagaattctt ctgcntcacc 120
 atgccaccaa agccttttaga ctatgggtca ataaatgaaa acgtgaagaa gagtcaatat 180
 gctgtcagag gtgaattata ctttcgagct tctgaacttc agaaagaggg caaaaagatt 240
 atctttacta atgttggcaa cccgcatgca ttgggacaga aaccactggc ttccctcgc 299

<210> 4606
 <211> 296
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559727H1

<400> 4606

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 ctacaatttt ggtagcatgg caatgccatg cgtacgatat gttccctctc cgaatgaaca 120
 ctggctatgg tgcccgact cccgaggtga aatgcgcaag ttggaggctt gctgtggaag 180
 cacacaacat ctttggcttt gagaccattc ctgaagagtg cgttgaagca acaaaggaat 240
 acatccatgg cgaacaatat agatcagact ccaaaacagt taaccacaag cttact 296

<210> 4607
 <211> 295
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559728H1

<400> 4607

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ggttaatggt gccaatccac cagatTTTgt gctgtgcatt ggagatgata ggtccgacga 240
ggacatgttt gagagcattt tgaggacggt tacgtgcccg tcataccatc agctc 295

<210> 4608
<211> 293
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559729H1

<400> 4608

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agtgactgaa gctcagaatc ctcttcttgg agaaaacaca tgtgggttctt tgttaaaaaa 120
gcttcaggaa atatgggatg aggttgggtga gagcgacgag catgcgagac aagatgcttc 180
ttcagttaga gcaggagtgc ttggatgtgt acaanagaaa ggttgagcag gctgccaaagt 240
caagggcgca ntacttcaag ctctgtctga tgctaagctt gagcttccat ctt 293

<210> 4609
<211> 262
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559730H1

<400> 4609

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tggcctagga ggattttgcy gcgctgctgt tatgtctctg aacaacaaga acataccttt 180
tgcctctgct gctccacac ccatgttccc tctggtgttg gattccgctg tgagcacggt 240
ggtgaagagg caagcaagtc ga 262

<210> 4610
<211> 294
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559731H1

<400> 4610

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 atacatggct tcggctactc tctctgtagc caaaccagcc cttcaggcaa atgggaaagg 120
 cttctctgaa ttctctggcc tccgcagctc atcaggcttc cttccctttt ctagaaaatc 180
 ttcagaggat ttccattctg tcattgcctt ccagacctat gcagttggaa gcagtggagg 240
 atacaagaag ggtgtgacag aagcaaaact gaaggttgcc ataacggatt tgga 294

<210> 4611
 <211> 299
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559732H1

<400> 4611

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 ggttctggag ctggagcttc agtcccagt tcagccttct ttgggaccag cttgaagaag 180
 gttattgcct caagggctcc caacagcaag gtttccggtg gaagcttcaa gattgttgct 240
 gtagaagaga agaaagagat tgaagagacc cagcagaccg acaaggacga tggaagggt 299

<210> 4612
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 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559733H1

<400> 4612

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 ttgaaatatg gaggtacatg acatgcttca cggactccgt ggccttgaaa tccgtcatag 240
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<212> nucleic acid
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 <223> Clone ID: 700559734H1
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 gaaattgtgg ttctgatga tactattgac tgtgtatacg gggaaaatgg tagcaatttg 240
 gctcgtctaa gacagatatac ggtgccaat gttgttgctc atagcctcgt ccc 293

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 <213> Glycine max
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<210> 4615
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559737H1
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 gataatttgg ttgcggtcga gtttttggct ctgattgata aagagaaaaga naaggatgaat 180
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<210> 4616
<211> 298
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559738H1

<400> 4616

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caccggacga tcgtgatttc gcatcttcat ggcttccgcc taccggaacg aacctaattg 240
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<210> 4617
<211> 299
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559739H1

<400> 4617

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ctgaagagtg cgttgaagca acaaaggaat acatccatgg cgaacaatat agatcagact 240
ccaaaacagt taaccaacaa gcttactttt atgccagaga cctcgaagcc atcccaagg 299

<210> 4618
<211> 298
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559740H1

<400> 4618

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 tgttgagactt gcctgagttg gccttggatt gcattcttga gaggttccn ccctcttcgc 240
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<210> 4619
 <211> 299
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559741H1
 <400> 4619

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 ccatctcctc tttctctctg aaacctgcca ccacaacaag atcattactc aacactagta 180
 cttcatccac cataaccctc ttacccttta catcagcaaa ctcatcttctc tccaaaaccc 240
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<210> 4620
 <211> 295
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559742H1
 <400> 4620

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 caatgtcatc caaaacgcac gtcatttttg taaatcattg caagtgttca ntagcgattt 240
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<210> 4621
 <211> 297
 <212> nucleic acid
 <213> Glycine max

1. <i>Chlorophyll a</i> (mg/g)		2. <i>Chlorophyll b</i> (mg/g)		3. <i>Chlorophyll a+b</i> (mg/g)		4. <i>Carotenoids</i> (mg/g)		5. <i>Protein</i> (mg/g)		6. <i>Starch</i> (mg/g)		7. <i>Cellulose</i> (mg/g)		8. <i>Lignin</i> (mg/g)		9. <i>Cellulose/Lignin</i> (mg/g)		10. <i>Cellulose/Lignin</i> (mg/g)	
Control	Stress	Control	Stress	Control	Stress	Control	Stress	Control	Stress	Control	Stress	Control	Stress	Control	Stress	Control	Stress	Control	Stress
1.1	1.2	0.8	0.9	1.9	2.1	0.5	0.6	1.5	1.6	0.2	0.3	0.1	0.2	0.5	0.6	0.3	0.4	0.2	0.3
1.3	1.4	0.9	1.0	2.2	2.4	0.6	0.7	1.6	1.7	0.3	0.4	0.2	0.3	0.6	0.7	0.4	0.5	0.3	0.4
1.5	1.6	1.0	1.1	2.5	2.7	0.7	0.8	1.7	1.8	0.4	0.5	0.3	0.4	0.7	0.8	0.5	0.6	0.4	0.5
1.7	1.8	1.1	1.2	2.8	3.0	0.8	0.9	1.8	1.9	0.5	0.6	0.4	0.5	0.8	0.9	0.6	0.7	0.5	0.6
1.9	2.0	1.2	1.3	3.1	3.3	0.9	1.0	1.9	2.0	0.6	0.7	0.5	0.6	0.9	1.0	0.7	0.8	0.6	0.7
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2.5	2.6	1.5	1.6	4.0	4.2	1.2	1.3	2.2	2.3	0.9	1.0	0.8	0.9	1.2	1.3	1.0	1.1	0.9	1.0
2.7	2.8	1.6	1.7	4.3	4.5	1.3	1.4	2.3	2.4	1.0	1.1	0.9	1.0	1.3	1.4	1.1	1.2	1.0	1.1
2.9	3.0	1.7	1.8	4.6	4.8	1.4	1.5	2.4	2.5	1.1	1.2	1.0	1.1	1.4	1.5	1.2	1.3	1.1	1.2
3.1	3.2	1.8	1.9	4.9	5.1	1.5	1.6	2.5	2.6	1.2	1.3	1.1	1.2	1.5	1.6	1.3	1.4	1.2	1.3
3.3	3.4	1.9	2.0	5.2	5.4	1.6	1.7	2.6	2.7	1.3	1.4	1.2	1.3	1.6	1.7	1.4	1.5	1.3	1.4
3.5	3.6	2.0	2.1	5.5	5.7	1.7	1.8	2.7	2.8	1.4	1.5	1.3	1.4	1.7	1.8	1.5	1.6	1.4	1.5
3.7	3.8	2.1	2.2	5.8	6.0	1.8	1.9	2.8	2.9	1.5	1.6	1.4	1.5	1.8	1.9	1.6	1.7	1.5	1.6
3.9	4.0	2.2	2.3	6.1	6.3	1.9	2.0	2.9	3.0	1.6	1.7	1.5	1.6	1.9	2.0	1.7	1.8	1.6	1.7
4.1	4.2	2.3	2.4	6.4	6.6	2.0	2.1	3.0	3.1	1.7	1.8	1.6	1.7	2.0	2.1	1.8	1.9	1.7	1.8
4.3	4.4	2.4	2.5	6.7	6.9	2.1	2.2	3.1	3.2	1.8	1.9	1.7	1.8	2.1	2.2	1.9	2.0	1.8	1.9
4.5	4.6	2.5	2.6	7.0	7.2	2.2	2.3	3.2	3.3	1.9	2.0	1.8	1.9	2.2	2.3	2.0	2.1	1.9	2.0
4.7	4.8	2.6	2.7	7.3	7.5	2.3	2.4	3.3	3.4	2.0	2.1	1.9	2.0	2.3	2.4	2.1	2.2	2.0	2.1
4.9	5.0	2.7	2.8	7.6	7.8	2.4	2.5	3.4	3.5	2.1	2.2	2.0							

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<210> 4624
 <211> 291
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700559749H1

 <400> 4624

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 cagcagcgcg aantggttgc ngacgcggcg cagtcggctc tgnagagcgn cagcgggaan 120
 gtggacaagg ccaaggtggc tgacgctgcc ggcgatcttc tcgacgcngc ggggaatntg 180
 gaanncttgn tgncaaacia ngcatanggc atatgtngac aaggctgctg attatctgcn 240
 taattaccag ggtgataata cnatgctcct tcacagcctg agagtctaaa g 291

<210> 4625
 <211> 288
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700559750H1

 <400> 4625

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 gtgacacaat gccattagat tttaagtntt tattaaccaa aatgaagttc ttccntttgt 180
 nttaattaat ttganatttt gtnattgtca atacaagtgt ccaaagaaag tgcttggtat 240
 gtgtatnatt tnngaagtga ctatttattc ctgttnaagg tntggaag 288

<210> 4626
 <211> 289
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700559751H1

 <400> 4626

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 tccgccaaag agattgcctt tgaccagcat tcccgcctctg ctatgcaggc cggcattgac 120

<213> Glycine max

<223> Clone ID: 700559759H1

<400> 4632

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<210> 4633

<211> 292

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559760H1

<400> 4633

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<210> 4634

<211> 290

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559761H1

<400> 4634

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agaacattaa acacctagat gagcatctgg tggacataac acaaaggaat 290

<210> 4635

<211> 280

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559762H1

<400> 4635

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gttcctcttc accatcaagc agttggtggc atcagggaag ccagacagct ttagtggaga 120

gtttctggtc ccatcatacc gtggaagctc tttcttggac cccaagggaa gaggtgcttc 180

tacaggttat gacaatgcag ttgctttgcc tgctgggtga agaggagatg aggaggaatt 240

gccaaagaaa acaacaagag tgcctcatca ncaaggggaa 280

<210> 4636

<211> 289

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559763H1

<400> 4636

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gccttccccg ttactgtact caattttattg agatatgcat catgctatgt gccgaccatg 120

gtccttgtgt ctctgggtgct cacaatacta ttgtgacagc aagggtggtg aaggacctag 180

tttctagtct tgtatcaggt ttgcttaciaa ttggtcctcg atttgggggg gccattgatg 240

atgctgctcg ctacttcaag gatgctcatg acagggcggt agtccttat 289

<210> 4637

<211> 291

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559764H1

<400> 4637

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agatggtcag ccaattcaag atccattggt gttgaaagaa acaagtcagg ccaagggatt 120
 ggctgtacat cotcaatata ataatagtc ttcaagtatg gatgctgcaa ataatttagc 180
 aaaggtgaca gacaagacag tagtccagtg gatgttaact ctccatcaaa taggtcttga 240
 tgtgggttcgc accgatagga cattagtttt ttatgagaan aagaaaactt g 291

<210> 4638
 <211> 294
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559765H1
 <400> 4638

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 tggcttcggtt ttctcctcgc acccattttct cagccactcc ttcttcctcg aaaccccgtc 180
 ttgtctacaa gaacaacttt ttcttctctc tcaggctgag gagtctttct ctctctccct 240
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<210> 4639
 <211> 289
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559766H1
 <400> 4639

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 gacaatgnca atgacgtggg cgcgattcga ttcgtggaag cagcaatact acaccacaag 180
 cggcgtggtg gtaggttacg cagtatgctc cagcctcctg gccatcatca ncaatacgc 240
 catcaccaaa ttcaactacc caggcctctt aaccgcgctc agtaacctca 289

<210> 4640
 <211> 287
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559767H1

<400> 4640

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 cacttgaata aggagttgga aaggatgaaa aatgagaata tgcttccttc agtagatggt 120
 caaagccacg agtcaagttt tccaggtctg caaagagaac tgatgcaatt ncacgaggcc 180
 aatcnagagt taggaaacat attccctgtt ttgataaat tctctatcag cggtaatgca 240
 ttagaaaggg tgctcgcttt ggagattgag cttgctgagc attgcgg 287

<210> 4641

<211> 286

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559768H1

<400> 4641

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 caacaaccac atgttttggg gggactgagg agccagctgc ctatggtgaa ctggtgtcca 120
 tgggtgctct taaccagaa ttgaacaaaa aactgagtgc tggaattgcc tgcgttcttg 180
 aaaccaagtt gttggtgcc aagtcacggg tcttcttaaa attctataac acagagggct 240
 ataattgtgc attgaacggg tctatcatgg tagtcggtcc aaatga 286

<210> 4642

<211> 286

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559769H1

<400> 4642

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 ccaagcaaac tcatacgtag cacgggtata attggaatct ctgcaagtcc aaattccgag 120
 ttaaatttgg ggggatggca gcatatcagg tgaaaaaatg gggggctctc tgctctaca 180
 agtgaagata attttctcta gataatgaat ggctaaatgg aactagagtt cttaaaattt 240
 ttcattttta atgaaaatga agatgtacac gacaaactta aaattg 286

<210> 4643
 <211> 294
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559770H1
 <400> 4643
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 ccatggctct ctcatcccca tcttggtg gcaaggccgt gaagctgggc ccatcagccc 120
 cagaagtggg aagggtagc atgaggaaga ccgtcaccaa gcaggctctcc tcaggaagcc 180
 catggtacgg cccagaccga gtcaagtact tgggccatt ctctggcgag ccccgctct 240
 acctaaccgg tgagttccca ggcgactacg gctgggacac tgctggcttt ccgc 294

<210> 4644
 <211> 294
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559771H1
 <400> 4644
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 aatggatttc acagcggaga agaaggaatc agagagcaac accgaaaatg ctcaccaac 120
 aacttttagat tcttcttctc aattggcatc ggcacttgat tccagcaaca aagaaatcga 180
 agaacgacaa gctcgtgaac tcaaagccgg tcttcacccc ctcaagcaca agtttgtctt 240
 ctggtacacg cgccgaacac ctggagttcg aaatcaaaca tcatcgagga caac 294

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 <213> Glycine max
 <223> Clone ID: 700559772H1
 <400> 4645
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 acggttgctt ccgctctgcc ttctctctct ctctctctt tctctttgca gatcaaggtc 120

gaaagtttca ggcgaatgcc gagggagatt ccgacgagct tgtagatcct ccgaagtgga 180
 ggacaanatc ngtgctgtgc ctcatggcct ttccaccgat tcagatgtct ctcaagacgg 240
 agtcgtagtc gatctcgaag agntctctcc ggagcaatgc nganaattga gttcca 296

<210> 4646
 <211> 280
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559773H1
 <400> 4646

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 gtggagatgc accatgaatc tcttacagag gcacatcctg gtgacaatgt gggattcaat 180
 gttaagaatg ttgctgttaa ggatttgaag cgtgggtatg ttgcctcaaa ctcaaaggat 240
 gaccctgcaa aggaggctgc taattcacan ccaagtcac 280

<210> 4647
 <211> 280
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559776H1
 <400> 4647

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 attttccaag caaaatgaag cancttgctt ntattatgta acttacctta tttgtgcttt 120
 gcagtgggtg tgatgtatat actgctattg ctggggctgt tggagctcta tatggacctc 180
 ttcatgggtg agccaatgag gctgtcctca anatgttgag tgaaattgga actgttgaga 240
 acnttccagc attcattgag ggtgttaaac caggaaacgg 280

<210> 4648
 <211> 152
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559777H1

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 tttctcccaa caagtgttc cacacaacat ag 152

<210> 4649
 <211> 289
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 <213> Glycine max
 <223> Clone ID: 700559778H1

<400> 4649
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 aacgggtggt gcctctcttc catctcccca gccaaaacct ctctcaggaa ggccacatta 120
 cgcccttcog tcttcgcaac ccttaacact ccttctcttc ctctctcttc atcttccttc 180
 ccctctctca ttcaagacag gcctgttttt gctgcccctg ccccatcat caccacaact 240
 gtgagagagg atatggcaaa ggaatacag aaagctatta agaattcag 289

<210> 4650
 <211> 287
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559779H1

<400> 4650
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 gccaccgggt cggacgtatt ccacaaccog ggtggcttgg acttgccat gaagcttcac 180
 taccttagag tgggtgtactt ctttgatagt gaggtgcac aagacctaac catcatgaaa 240
 attaaggatg gcatgttcac tttgttcaac cattactcat cacctgt 287

<210> 4651
 <211> 291
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559780H1

<400> 4651

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gcacaaagat atgctgcgca agtcccttca ggaaaagtat gaagaagcaa ctgctgcact 120
tgctgaaatg gagaagaggg cagttatggc agaatctatg ctggaggcta cattgcagta 180
ccaatctggc caagttaaag tgctacaatc tccacgatct tcacagtcag attctccggt 240
atcgagaaac aatcaagagc cggatatccc tgctaggagg taagtttgct t 291

<210> 4652

<211> 289

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559782H1

<400> 4652

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caganttcta aagttccaag ctttcagtc ttgaaggta aggctacaga agatnanact 120
acacaaagca aaacaattag gagcattggt tgttctgatt gtgatggaaa tggtgcaaaa 180
tcatgtactc aatgcaaagg tactggaggt aattctgtag atcacttcaa tggacaattt 240
aaagctggtg gattgtgttg gctatgcagg ggaaaanagg atattttgt 289

<210> 4653

<211> 285

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559783H1

<400> 4653

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cattcttccc gtatttgacg aagataaaca gcctacctat tgcnaaagct tatgccacaa 180
ggacaatcct gttcttgaaa gacgatggat ctttaaagcc acttgctatc gaattaagca 240
agcctgcaac agtgagtaaa gtggtgttgc ctgcacagaa ggtgt 285

<210> 4654
 <211> 284
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559784H1
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 atttatgatg acatcaagca aacatatgct gatattaaac ctggaagcat cattccttat 120
 aggggtgaagg ttagtctcat ttttgatggt cccatcttgg gaaggctaac tctacctttg 180
 gagaaaactg gagaaatccc cataccatac aagcctgata ttgatcttga gaagattcat 240
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 <223> Clone ID: 700559785H1
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 tggcaagggc ccgctcaaca actgggccac ccacttgagt gacccatcca cacaaccatc 240
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<210> 4656
 <211> 292
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 <213> Glycine max
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cgttcttctt ccaagaacgg tttccacct caagaactcc ttgacgatct ctgcagccga 180
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<210> 4657
 <211> 287
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 <213> Glycine max
 <223> Clone ID: 700559792H1
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 gcaagcgcct cggagtcaag atttaccgcy accangtngc caancncggc tccatcntcg 180
 ttgcgccancg cggaaccaag tttcatgcac gaaagaatgt ngggcttngc aaagactata 240
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<210> 4658
 <211> 285
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559794H1
 <400> 4658

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<210> 4659
 <211> 289
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<400> 4659

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actcattcct aaaccaagtt atccctgaaa acatcaccca attccaagt actctgtccc 180

tcgctagaga ctacgatggc aacaactcaa ccaacggaaa gttcattcct tactgggaca 240

ctgaaaaggt cactcccgaa gtgataaaaa aattcaagaa aaatacgaa 289

<210> 4660

<211> 286

<212> nucleic acid

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<223> Clone ID: 700559796H1

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ccccaccacc ccatcaggcc tcaccatcag agctggttcc tatgctgatg agctcgtaa 180

gaccgcgaaa acagtggctt caccaggag gggatatttg gccatggatg agtccaatgc 240

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<210> 4661

<211> 296

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559801H1

<400> 4661

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ctcatcaggc ttccttcctt tttctagaaa atcttcagag gatttccatt ctgtcattgc 180

cttccagacc tatgcagttg gaagcagtg aggatacaag aagggtgtga cagaagcaaa 240

actgaagggt gccataaacg gggttggaag gattggaagg aattcttgag gtgctg 296

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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559802H1
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 aattttggta gcatggcaat gccatgcgta cgatatgttc cctctccgaa tgaacactgg 120
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 caacatcttt ggctttgaga ccattcctga agagtgcgtt gaagcaacaa aggaatacat 240
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<210> 4663
 <211> 292
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559803H1
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 gctcgaagtc atgcttcacg gccagttaac catgctccac ctccagctcc tgctcagagt 180
 gacaatcgtg gatctctctt tgggactgta gctgaaggat tggcttttgg ttctggaagt 240
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<210> 4664
 <211> 84
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559804H1
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 cgttctcatt ctagatnccc nnat 84

<210> 4665
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<223> Clone ID: 700559805H1

<400> 4665

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 ggtcaggctt caactccaaa agaaggtagg ggttgatgag ggagtgggtt tacctaaata 180
 caagggttg ctgggcacag ttaagaccat tgctagagaa gagggatatat cagccctgtg 240
 gaaaggcatt gttcctggtt tacaccgcca atgtttatat gggggcttaa gaa 293

<210> 4666
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<223> Clone ID: 700559806H1

<400> 4666

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 gttcaatgca gtccanttgn ataagaccaa ggcgacgct acttctctaa agaagagcat 180
 ctgcgaattc ttcttctnct tccgatgtca ccaattctca agaagaagct tcttccaagg 240
 attcgntcaa cnccgtcgtc ccttctcaaa acntagatct cagaagaaag tncagt 296

<210> 4667
 <211> 294
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559807H1

<400> 4667

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 cagatatggt tcatgctctt aaaccaatc ccaagaacca catccaagag aattggagga 120
 tcttgactt cttctctcac ttccagaaa gccttcacat gttcaccttt ttatttgatg 180

atttgggtgt tccacaagat tacaggcata tggatggttt tggagttaac acatatacgc 240
tgatcaacaa ggctgggaaa gcagtgtatg tgaaatttca ctggaagacc acta 294

<210> 4668
<211> 221
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559808H1

<400> 4668

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tagcaccaag ggtttggagc acatggtgat gccgcggatt gaagagtggg agagtggaga 180
accagaaata atgcagaagc aacaactacg ttcaagtact t 221

<210> 4669
<211> 294
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559809H1

<400> 4669

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cagtgctaag gacaccgcca ccgatttctt gggcaaaggc ttggacgcat taggtcatgc 180
agttgatgct ctactgcct tcgctggcca tagcatctcc ttgcagctta tcagtgtac 240
tcagactgat ggtagtggaa aaggaaaagt tggaaacgaa gcctatttgg aaaa 294

<210> 4670
<211> 293
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559810H1

<400> 4670

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ggcttcttca agcataacct gcacctttca ctgtaacctc catccttcaa tatcccttcc 120
 aacctcagcc actcgttttt ccttatcttt ttcccaccct ctactttgca cccacaatgg 180
 cctttccctt cacccttcaa gctccagctt cagagttttt gccaaagttg agaaattcca 240
 aagccaacct tccaatccc aagagcctga cccttcanc cactagaag aaa 293

<210> 4671
 <211> 296
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559811H1
 <400> 4671

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 ctacacgggg taatagaata actcttanga aggacttcaa tggaagaaga tatctctact 180
 catcttgagg attttcatta ttgaacaaca ataaggcatc aaaagcattt tccataaagg 240
 catctttgga gcaaaggcaa gaagaaggga gaaggggggt tctgaaactg ttgctt 296

<210> 4672
 <211> 283
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559812H1
 <400> 4672

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 tgaaatggat cttcttgaca togactccat tgccgctgcc ataaaggggt gttccggcgt 120
 aatccacctt gcatgtccta acatcattgg tcaagtcgaa gatcccgaga aacagatatt 180
 ggaaaccggcg ataaaaggaa cggttaatgt gttgaaggcg gcgaaggaag caggggtgga 240
 gcgcgtggtg gcgacttcat cgatttcgtc gattatgcca agt 283

<210> 4673
 <211> 291
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559813H1

<400> 4673

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ctccaaggat cgcgagaact tcgtctacat cgccaaactc gccgagcagg ccgagcgta 120
cgaagagatg gtggaatcaa tgaagaacgt tgcaaatctc gacgttgaac tgacggtgga 180
ggagcggaat ttgctttctg ttgggtacaa gaatgtgatt ggtgctcgca gacgtcctgg 240
aggatcctgt cttccattga gcagaaggaa gaaacaaaag ggaacgagtt g 291

<210> 4674

<211> 296

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559814H1

<400> 4674

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gttttctttg ttaatntcag tgctaaagtt aattgaccgt ggncantaca gtcaagaatg 120
aanatctctc tgagacagtt gctgcagcaa cttntntang cntcctatgt agaaccctca 180
ttggtngcng ccatttgggg catctcggtt tcgaatggcc cttgagacga tgactgccac 240
tcaccagttg aaaattgccg ttatgtcagt ggcatttgtc gggcggttcac tatgtt 296

<210> 4675

<211> 294

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559815H1

<400> 4675

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agccagccac agtactgttg cgctcctgtg gaaccatcga tgggctttta caggttccac 120
atcggttgag ctttgtgtca gatatgccaa tagtggtatc cttattcttg tgatatacta 180
gtttgtatga tcatatcttc tcggattgtc tagcaagttt agctcaattg gacgttgaac 240
gaattattat aaatctatta agattatctt caatttctac gaaaaaaaaa tatt 294

<210> 4676
 <211> 293
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559817H1
 <400> 4676
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 gatgatgcat tggtcaggta tgaagggtgaa tggtttcaaa acgatgtgga gggcatggt 180
 gtagttgaag tcgatatacc tggtatagaa cctggctcct gggccaagc ttgaagcaaa 240
 gatgcgagct ccagggaaag ataatagcaa agggtttctt gtccccagaa gac 293

<210> 4677
 <211> 291
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559818H1
 <400> 4677
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 ttcccttctt tgacactgtg aagggttaaga cttccaatgc acacgcaatt gctgatgctg 120
 ctctcaaaag tggataaat ttgaggttg ttgatggaaa cactatcact gttgcttttg 180
 atgaaacaac cacattagag gatgttgata atcttttcaa agtttttgct ggtggaaagc 240
 ccgtctcctt cacagctgca tctcttgac cagaagttca gattgagatt c 291

<210> 4678
 <211> 292
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559819H1
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ctcttgatc ctcacgggaa cgaggaaaag gaagagtatt tgcgcgaaga ggttccggag 180
 tggaaggagc agataacgat aagagggttg gtggtgagtg ctgtgttggg gagcttggtc 240
 tgcacatca cccacaagct aaatctcacc gttgggatca tcccttctct ta 292

<210> 4679
 <211> 107
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559820H1
 <400> 4679

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 caggcttnat gctaatttcc attnccccat tcncattgcc cacncag 107

<210> 4680
 <211> 293
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559822H1
 <400> 4680

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 tatcctgccc ccatccacca cttctccgat gccatcgccc tggtccctc caaccatgtc 120
 ctctattcca accgatccgc cgcatacgcc tccctcaaaa actacgcaga tgcattagcg 180
 gatgccaaaa agacagttga actcaagccc gactgggtcca agggttacag ccgtctcggt 240
 gccgcgcac ttggcctttc ccaatacgat gatgctattt tggcttacia aag 293

<210> 4681
 <211> 290
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559823H1
 <400> 4681

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ctccgattgc nccagggtt cacacttcga atcgccgttt tctgtcatga attgggctcc 180
 gtttagcacac ctgcgcgact ctgcgtgacg gaggagattc gaaattcggc cgccaaatgg 240
 tttcaatctt gttgtacatc gtcgctttca ttgcacgtgc gganccattg 290

<210> 4682
 <211> 291
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559824H1
 <400> 4682

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 tcatttatctt gcagaagggtg aggagagttg ttttttaaaa tgggtccagtt cttttcttat 180
 actttgataa gtttttaact ggttcattct gagtatgagt tagctggatt atatcaaact 240
 acgcttgtag ccttggtatg cataattata atcctcatcc gttgaactac a 291

<210> 4683
 <211> 291
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559825H1
 <400> 4683

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 tgtgtgagag agagaatcaa gagagaggag aaaacagaga caaacgctgt ctgtgcgagt 120
 tagagagtaa gagaaacccc agaaaatcag aaaatctaac cccatttttt tctctctcta 180
 gtttccattt gatcgagggt tctcattgtg gttttccgat tatcgtcgaa tcagctccgt 240
 tctccggttc gggtcgggtgc aatggagcag tacggccggt ccagtgaagg t 291

<210> 4684
 <211> 289
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559826H1

<400> 4684
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 ccgatttcct gggcaaaggc ttggacgcat taggtcatgc agttgatgct ctactgcct 180
 tcgctggcca tagcatctcc ttgcagctta tcagtgcctac tcagactgat ggtagtggaa 240
 aaggaaaagt tggaaacgaa gcctatttgg aaaaacatct tccgacctt 289

<210> 4685
 <211> 288
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559827H1

<400> 4685
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 tcacattgga tcaacttaac tttcacgaca ctgtcagcaa gcacgatttc atcgtcgtcg 180
 agttctacgc tccatggtgt ggccactgta agaagettgc tcccaggtat gagaangctg 240
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<210> 4686
 <211> 291
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559828H1

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 cactctccaa cgattcctcg ttgcccttc catttccttc gcctccagaa attacgccaa 180
 cgtgccgggg caaaaggaaa acaaagttaa ggtccctctg gctttgtttg gaggttcagg 240
 aaactatgcc tctgctttgt atattgcac tgtgaaagct aatgcagtgg c 291

<210> 4687
 <211> 291
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559829H1

<400> 4687

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 tgtaaccctt cctcagcatc agctctcacc atcaaagctg cttcctatgc tgacgagctc 180
 gtcaaaaccg ccaaaacagt ggcctcaccg gggcgtggta ttttggcgat ggatgagtca 240
 aatgcaacct gcgggaagcg tttggcatct attgggttag agaacacaga a 291

<210> 4688
 <211> 295
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559830H1

<400> 4688

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 ggtgctacct ttaagaagaa ggtaaagaag atccgaactt ctgtcacttt ccacaggccg 180
 aagaccttga agaaggacag gaaccccaag taccctcgca ttagcgcccc gccgaggaac 240
 aagcttgatc attatcagat cctgaaatac cccctcacca ctgagtctgc catga 295

<210> 4689
 <211> 277
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559831H1

<400> 4689

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 tcgttttggc aattcagtga ccagctgagg ttacaggcat ccaatttggc gaaccttctc 180

taaacgattc gatttgggag caacaattac atctccaaga ggcgtgatga aaggattaat 240
 tttagacatca aagtgggggg tgagatcaac tctttca 277

<210> 4690
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559832H1
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 catcaggcat aggctagcaa gcaatgatat ggctttcttc ccagcaaatt tcatgctaca 180
 aacacctcac caagatgacc atcaacctcc accttcactc aactcaatta taacttcattg 240
 tgcacctcaa gagtaccatg gtggaggagc atcctttctt ggcaagagat ctatgtc 297

<210> 4691
 <211> 281
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559833H1
 <400> 4691

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 aatccacctt gcatgtccta acatcattgg tcaagtcgaa gatcccgaga aacagatatt 180
 ggaaccggcg ataaaaggaa cggttaatgt gttgaaggcg gcgaaggaag caggggtgga 240
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<210> 4692
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 <213> Glycine max
 <223> Clone ID: 700559834H1
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 tgaatctcat ttgcggtgct aaaacgcagt ctaatccaga aaatacagtg ggagttctca 180
 caatggcagg gaaaggcgtt cgtgttttgg tcacccttac cagtgatctg ggcaagatct 240
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<210> 4693
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 <213> Glycine max
 <223> Clone ID: 700559835H1
 <400> 4693

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 gntcttcatt ttctcttggt caatcaaggt tatgctttaa aattctgaaa ctcacagttt 240
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<212> nucleic acid
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 caccaacaga cgaacanagt ccgaggaaca accacgtgta tgggaaggag ttccagtcca 180
 tgctggaagg actcgacgaa gaagggtgcg tggaagaagc anggcaccac tctgagaaga 240
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<210> 4696
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 <212> nucleic acid
 <213> Glycine max
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 ccaccatcaa cttcttcctt ttcttcaccc cgtacattca caaccctggc tctcttcaaa 240
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<210> 4697
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559839H1
 <400> 4697
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 aacaccctat gccgagtgc ttctatgcag tttttgatgg gcatggaggg cctgatgcag 240

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<210> 4698
<211> 290
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559840H1

<400> 4698

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ctggacctgg ggtttcagct cccagttcat ctttctttgg gagcagcttg aagaaggtta 180
ttggctcaag ggtccccaac acaaagattt cctctggaag cttcaagatt gttgctgtag 240
aagagaagaa agagattgaa gagaccagc agaccgacaa ggacagatgg 290

<210> 4699
<211> 289
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559841H1

<400> 4699

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gtcgtccgta cgagaaggag cgtctcgacg cggagttgaa gctggttggg gactacgggc 180
ttcgggtgcaa gagagagctg tggagggtgc agtacgcgct cagccgcacg cgcaacaacg 240
cgcggaacct cctcaccctc gacgagaaga acccgcgccg gatcttcga 289

<210> 4700
<211> 287
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559842H1

<400> 4700

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aggacaagga aggtatccct cctgaccagc agaggttgat ttttgctggg aagcagctgg 180
aagatgggtc cactcttgct gattataaca tacaaaagga atcaacactt cacttggtct 240
tgaggctaag gggaggtacc atgattaaag tgaagacttt aactggg 287

<210> 4701
<211> 290
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559844H1

<400> 4701

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ccacctcttt gccaaaggtt tgagccagaa agatagtagc ttaacacata tagtgtggaa 180
tccaggatct gaatttgcatt tctgtgattg ttcttgggtca atgcaaggta acctttgcaa 240
gcatgttgct aaagtaaaca tgatttgtga aaatcttaaa gggttatcaac 290

<210> 4702
<211> 286
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559845H1

<400> 4702

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gatatggctc attgttctcg ctgtttgatt ccttggggag caaataatgg aatttatatg 120
atggaagttg atcgagttct aaggcctggt gggtattggg tgctttcggg tcctccaatc 180
aattggaagg ctaactacaa atcctggctg agacctaagg aagaacttga ggaagagcaa 240
agaaagattg aagagactgc taagcaactt tgctgggaga agaggt 286

<210> 4703
<211> 290
<212> nucleic acid
<213> Glycine max

[illegible]

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ctcaagaaaa	gcctcctttc	ttgttaaggc	agctgctact	ccccctgtca	agcaaggatc	180
agacagacct	ttgtggtttg	catcaaagca	aagtctttcc	tacttggatg	gcagccttcc	240
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<211>	292
<212>	nucleic acid
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<400> 4704

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<400> 4705

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aaagagatta	aaaatccaag	atgggtacgag	tcctttcata	tttattgt		288

Variable	Mean	SD	Min	Max
Age	34.2	10.5	21	55
Gender	0.5	0.5	0	1
Marital Status	0.6	0.5	0	1
Education	12.5	1.5	9	16
Income	15.2	5.8	5	35
Health Status	0.8	0.4	0	1
Stress Level	3.2	1.2	1	5
Life Satisfaction	4.5	1.0	3	6
Work-Life Balance	3.8	1.1	2	5
Family Support	4.2	1.3	3	6
Community Involvement	2.5	0.8	1	4
Personal Growth	3.5	0.9	2	5
Financial Stability	3.0	0.7	2	4
Emotional Well-being	4.0	1.0	3	5
Physical Health	3.5	0.8	2	4
Social Connections	3.2	0.9	2	4
Work Engagement	3.8	1.0	2	5
Life Goals Achievement	3.0	0.8	2	4
Overall Quality of Life	3.5	0.9	2	4

Variable	Mean	SD	Min	Max
Age	34.2	10.5	21	55
Gender	0.5	0.5	0	1
Marital Status	0.6	0.5	0	1
Education	12.5	1.5	9	16
Income	15.2	5.8	5	35
Health Status	0.8	0.4	0	1
Stress Level	3.2	1.2	1	5
Life Satisfaction	4.5	1.0	3	6
Work-Life Balance	3.8	1.1	2	5
Family Support	4.2	1.3	3	6
Community Involvement	2.5	0.8	1	4
Personal Growth	3.5	0.9	2	5
Financial Stability	3.0	0.7	2	4
Emotional Well-being	4.0	1.0	3	5
Physical Health	3.5	0.8	2	4
Social Connections	3.2	0.9	2	4
Work Engagement	3.8	1.0	2	5
Life Goals Achievement	3.0	0.8	2	4
Overall Quality of Life	3.5	0.9	2	4

Variable	Mean	SD	Min	Max
Age	34.2	10.5	21	55
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Education	12.5	1.5	9	16
Income	15.2	5.8	5	35
Health Status	0.8	0.4	0	1
Stress Level	3.2	1.2	1	5
Life Satisfaction	4.5	1.0	3	6
Work-Life Balance	3.8	1.1	2	5
Family Support	4.2	1.3	3	6
Community Involvement	2.5	0.8	1	4
Personal Growth	3.5	0.9	2	5
Financial Stability	3.0	0.7	2	4
Emotional Well-being	4.0	1.0	3	5
Physical Health	3.5	0.8	2	4
Social Connections	3.2	0.9	2	4
Work Engagement	3.8	1.0	2	5
Life Goals Achievement	3.0	0.8	2	4
Overall Quality of Life	3.5	0.9	2	4

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<223> Clone ID: 700559856H1

<400> 4709

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<211> 285
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559857H1

<400> 4710

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caacagatga atctgatcgc ctctgaaga tggaagagac tttaac 285

<210> 4711
<211> 286
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559858H1

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 gacggactcc aaactcttgt cctcatgaac cccggctaca tccactactc cgacgcnnnn 180
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<210> 4712
 <211> 234
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559859H1

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 cacagccatt ctggttgat acaggcatat tgattgtgct caagcgtata acaatcaagc 180
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<210> 4713
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 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559860H1

<400> 4713
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<210> 4714
 <211> 285

<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559861H1

<400> 4714

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caactgggtc attattactg gttctgagtg gtcttgcttc agatcagggt tttttgctaa 180
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<210> 4715
<211> 288
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559862H1

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<210> 4716
<211> 290
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559863H1

<400> 4716

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agaaggaaag cctatgctga aatgcaggaa aaagcaaagg cagaggaaga agcaagagtg 240

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<210> 4717

<211> 285

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559865H1

<400> 4717

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agttccagct tccgataaga ctgcaactgt caataggaat gctcttgga gaccccttcc 240

cacaaggcca tgggagcaga ataatggaag taccagctat ggagg 285

<210> 4718

<211> 256

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559866H1

<400> 4718

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aagaagctgc cactcatgac gaagcagaaa attcgcaacg ctcttttggt gcacttggtg 180

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tacgggaacc cgattt 256

<210> 4719

<211> 282

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559868H1

<400> 4719

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catgggattg ttggggcgca ggttccgttg ggggtgtgggt tggcgtttgc tcagaagtat 240
tctaaggacg agagtgtcac ttttgctatg tatggagatg gc 282

<210> 4720
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<213> Glycine max
<223> Clone ID: 700559869H1
<400> 4720

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<213> Glycine max
<223> Clone ID: 700559870H1
<400> 4721

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<210> 4722
<211> 284
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559871H1

<400> 4722

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<210> 4723

<211> 286

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559872H1

<400> 4723

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aagtccaagg tcaactggtg actatgagga tgatgaggat gatgaagatt ataagccacc 180
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<210> 4724

<211> 282

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559874H1

<400> 4724

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aaggttttca gccatcctga tgttggtgct gaagtgccat gg 282

<210> 4725
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 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559875H1

<400> 4725

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 aagtgccgcc acacgatatg gccgggatta ctctccggtg ccacctcgcc gccgcttccc 240
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<210> 4726
 <211> 284
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559876H1

<400> 4726

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 aagttcaacc cagtccaacc aaacattatg ctccaaaaag atgctagtat ttcatcctct 180
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 cgtgcccttt acgtgcgcc aatccagatt tgggacagcg aaac 284

<210> 4727
 <211> 283
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559877H1

<400> 4727

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ccgaactgaa cgaggttctg acacgtgagt tggcggagga cggttactcc ggcgtggagg 180
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<210> 4728
 <211> 285
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<223> Clone ID: 700559878H1

<400> 4728

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 aaganangtn gnnananata agggctcttt atcntgattg tatnc 285

<210> 4729
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 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559880H1

<400> 4729

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 agagcaaaaa tgacgtcaa aacagcggcg gtggctgtgg ctatagtgtg catttctgcc 180
 tttagcatca ctgtgggtggc tgaagatcca tacaggttct tcaactggaa tgttacatac 240
 ggagacattt atccaattgg tgttcgccaa caggaatac ttatcaacg 289

<210> 4730
 <211> 282
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559881H1

<400> 4730

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aatatgataa gatggatgaa gatccaaagc aggaggttga ggctgancca aaggctgttg 240
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<210> 4731

<211> 283

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559882H1

<400> 4731

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aatggggaac ggggttaagta acccgccctn gnagtanaat gcg 283

<210> 4732

<211> 280

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559883H1

<400> 4732

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<210> 4733
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<223> Clone ID: 700559884H1

<400> 4733

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<210> 4734
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 <212> nucleic acid
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<223> Clone ID: 700559886H1

<400> 4734

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<210> 4735
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 <212> nucleic acid
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<223> Clone ID: 700559887H1

<400> 4735

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<210> 4736
<211> 282
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<223> Clone ID: 700559888H1

<400> 4736

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<223> Clone ID: 700559890H1

<400> 4737

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<210> 4738
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<213> Glycine max

<223> Clone ID: 700559891H1

<400> 4738

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<211> 279
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559892H1

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<210> 4740
<211> 254
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559894H1

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<223> Clone ID: 700559895H1

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cgtatctggg ttgataatgt gaggatcccc agagagaatt tgttgaattc tgtggctgat 180
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<223> Clone ID: 700559896H1

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<400> 4743

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<223> Clone ID: 700559904H1

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<223> Clone ID: 700559909H1

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gtcgcaaatg 310

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gctgccaagc ttgaaatgat ggaaccttgc tccagtgtca aagacaggat aggatatagc 240

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taccagtgga aa 312

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<223> Clone ID: 700559914H1

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<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559916H1

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gccatgtgag atcttg 316

<210> 4752
<211> 319
<212> nucleic acid
<213> Glycine max

Variable	Mean	SD	Min	Max
Age	34.5	10.5	20	55
Gender	0.5	0.5	0	1
Marital status	0.5	0.5	0	1
Education	12.5	1.5	10	15
Income	1.5	0.5	1	2
Health status	0.5	0.5	0	1
Stress level	2.5	1.5	1	4
Life satisfaction	3.5	1.5	1	5
Work satisfaction	3.0	1.5	1	5
Family satisfaction	3.5	1.5	1	5
Community satisfaction	3.0	1.5	1	5
Overall satisfaction	3.5	1.5	1	5
Life expectancy	75.0	5.0	60	90
Quality of life	4.0	1.0	1	5
Healthcare access	0.5	0.5	0	1
Healthcare quality	0.5	0.5	0	1
Healthcare cost	0.5	0.5	0	1
Healthcare coverage	0.5	0.5	0	1
Healthcare satisfaction	0.5	0.5	0	1
Healthcare utilization	0.5	0.5	0	1
Healthcare expenditure	0.5	0.5	0	1
Healthcare equity	0.5	0.5	0	1
Healthcare efficiency	0.5	0.5	0	1
Healthcare effectiveness	0.5	0.5	0	1
Healthcare safety	0.5	0.5	0	1
Healthcare transparency	0.5	0.5	0	1
Healthcare accountability	0.5	0.5	0	1
Healthcare integrity	0.5	0.5	0	1
Healthcare honesty	0.5	0.5	0	1
Healthcare fairness	0.5	0.5	0	1
Healthcare justice	0.5	0.5	0	1
Healthcare equity	0.5	0.5	0	1
Healthcare efficiency	0.5	0.5	0	1
Healthcare effectiveness	0.5	0.5	0	1
Healthcare safety	0.5	0.5	0	1
Healthcare transparency	0.5	0.5	0	1
Healthcare accountability	0.5	0.5	0	1
Healthcare integrity	0.5	0.5	0	1
Healthcare honesty	0.5	0.5	0	1
Healthcare fairness	0.5	0.5	0	1
Healthcare justice	0.5	0.5	0	1
Healthcare equity	0.5	0.5	0	1
Healthcare efficiency	0.5	0.5	0	1
Healthcare effectiveness	0.5	0.5	0	1
Healthcare safety	0.5	0.5	0	1
Healthcare transparency	0.5	0.5	0	1
Healthcare accountability	0.5	0.5	0	1
Healthcare integrity	0.5	0.5	0	1
Healthcare honesty	0.5	0.5	0	1
Healthcare fairness	0.5	0.5	0	1
Healthcare justice	0.5	0.5	0	1
Healthcare equity	0.5	0.5	0	1
Healthcare efficiency	0.5	0.5	0	1
Healthcare effectiveness	0.5	0.5	0	1
Healthcare safety	0.5	0.5	0	1
Healthcare transparency	0.5	0.5	0	1
Healthcare accountability	0.5	0.5	0	1
Healthcare integrity	0.5	0.5	0	1
Healthcare honesty	0.5	0.5	0	1
Healthcare fairness	0.5	0.5	0	1
Healthcare justice	0.5	0.5	0	1
Healthcare equity	0.5	0.5	0	1
Healthcare efficiency	0.5	0.5	0	1
Healthcare effectiveness	0.5	0.5	0	1
Healthcare safety	0.5	0.5	0	1
Healthcare transparency	0.5	0.5	0	1
Healthcare accountability	0.5	0.5	0	1
Healthcare integrity	0.5	0.5	0	1
Healthcare honesty	0.5	0.5	0	1
Healthcare fairness	0.5	0.5	0	1
Healthcare justice	0.5	0.5	0	1
Healthcare equity	0.5	0.5	0	1
Healthcare efficiency	0.5	0.5	0	1
Healthcare effectiveness	0.5	0.5	0	1
Healthcare safety	0.5	0.5	0	1
Healthcare transparency	0.5	0.5	0	1
Healthcare accountability	0.5	0.5	0	1
Healthcare integrity	0.5	0.5	0	1
Healthcare honesty	0.5	0.5	0	1
Healthcare fairness	0.5	0.5	0	1
Healthcare justice	0.5	0.5	0	1
Healthcare equity	0.5	0.5	0	1
Healthcare efficiency	0.5	0.5	0	1
Healthcare effectiveness	0.5	0.5	0	1
Healthcare safety				

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307

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<223> Clone ID: 700559929H1

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<223> Clone ID: 700559935H1

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<223> Clone ID: 700559936H1

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<212> nucleic acid
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<223> Clone ID: 700559938H1

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<212> nucleic acid
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<223> Clone ID: 700559939H1

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 <223> Clone ID: 700559940H1
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<212> nucleic acid
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559945H1
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 gctttgtact gaatccaaga ttaaggagct gaaggggtgct attggaccct tatctggacg 180
 cagtttgatg tattgcactg attcatgttt taagagatat tggaagctcg aaactggaac 240
 gagacaagtc caagaagatg ttggaggaga cactaagtgg agatcaacct ataagccaga 300
 agaaa 305

<210> 4778
 <211> 308
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559947H1
 <400> 4778
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 gttgcattga aactttcgaa gatggaagaa ttcactggtc gatccgctcc aacagtcatt 120
 acatgaacac atacaggtgg aaggtggtta gatcctgaag tttctcccag tcattttctc 180
 tttgttcagt ttcttacgga tggccgaaca ctagtggttg ttgtttgcag cctttgctat 240
 gggcatgagt ggatttgatc agttacttat caaaatttga tgtgctgaat aagttgcaac 300
 tgccgagt 308

<210> 4779
 <211> 308
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559948H1
 <400> 4779

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 tttaatgtac ttgctttgtc tatttttttt ctttctatc ctttacttct gggatgattg 180
 ccgtctttac gataaagtgt tgggaaaaac tgcaaacag aattgtgtat actcaaagct 240
 aagagcgtca aggactatct ctactggaaa cagttattca ccgagagccg ttcttataga 300
 tgatcttt 308

<210> 4780
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559950H1
 <400> 4780

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 ttcagacnca gcgagttt 138

<210> 4781
 <211> 306
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559951H1
 <400> 4781

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 gccctgtcc tgcactgcca cacttctcac attgctgtca agtttgctga actcatgacc 180
 aagattgaca ggcgatccgg caaagagctt gagaaggagc ccaagttttt gaagaacggt 240
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 atctc 306

<210> 4782
 <211> 147

<212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700559952H1

 <400> 4782

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 gtagaanatc aagaangagt accaagagac ncagcagacc gacaaggaca gatggaacgg 120
 tcttncctat gatattctcag acngaa 147

<210> 4783
 <211> 302
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700559953H1

 <400> 4783

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 tgtggacgca cgacaccaca tgctggggag gctggcatcg atcgtggcgn aagaacttct 120
 gaatgggcag aaggtggtgg tggtagctg cgaggagatt tgcattctccg gtgggctcgt 180
 cangcanaag atgaagtact tgcgtntcct ccgcaagcgc atgaacacca agccctccac 240
 ggccccatcc atttccgtgc acccggcaag atcttctggc gcaccgttcg tgggatgata 300
 cc 302

<210> 4784
 <211> 297
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700559954H1

 <400> 4784

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 acgtaattgg gggtactatg aaccgccac gtcgtttaag agccacctgg ggctgcaact 120
 gatgtcatcc atgccggaaa aacctctaatt tggagggcgc aatgctgcgg ttttagctgg 180
 tactaatggg gcatttcacc ataggacat tgggtgntg cccaagcta catactatgg 240
 aatacatgag ggangctgga ttagtcagag agcncgccn tggctatgat nccnacc 297

<210> 4785
 <211> 300
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559955H1

<400> 4785

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 cgggaggggc agcatgagga agaccgtcac caagcaggcc tctccggaa gcccatggta 180
 cggcccagac cgcgtcaagt acttggggccc attctctggc gagccccgt cctacctctg 240
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<210> 4786
 <211> 172
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559958H1

<400> 4786

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 tattctgcaa ctggttctta cgtcaatggc ggnatgcact cgctgggtt gg 172

<210> 4787
 <211> 147
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559959H1

<400> 4787

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 acagctcagn gtanacaacct acgccgt 147

<210> 4788
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559960H1
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 gctgacntg tgaaaagagc tcanagttac cctttgaaat taattgccaa gaatggctgg 120
 tgtcaangga 130

<210> 4789
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559961H1
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 gcganttccc nncaccggtt gtcag 85

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 <213> Glycine max
 <223> Clone ID: 700559963H1
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 aaggaaaagg ttcacatcag tattgtggtc attggccatg tcgactctgg gaaatccact 120
 accactggtc acctgattta caagcttga ggcattgaca agcgtgttat tgagaggttt 180
 gagaaggaag ctgctgagat gaacaagagg tctttcaagt atgcctgggt gctggacaaa 240
 ctaggctgag cgtgaaagag gaatcaccat gatatgcttt gtggaagttt gaaacaacaa 300
 atatt 305

<210> 4791
 <211> 308

<212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700559964H1

 <400> 4791

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 ttccttcttg agtggaggaa acaggagcca aacccttctg gccactgcta ttggaggcaa 180
 agttgggtgct gctgctgtta ctgttagtcc tagaagactc attgtggtag ctgctgctgc 240
 accaaaagtc atggctcccg gtgtcagagg tgggtggcaac tcgtcgaccc agaaggcttg 300
 atggatcg 308

<210> 4792
 <211> 149
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700559965H1

 <400> 4792

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 caagaagaag ctgcaccttc atctcaactt aatccccact attttttctt cttncacac 120
 mnaatacgat nngggcgctg ccgccaata 149

<210> 4793
 <211> 304
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700559966H1

 <400> 4793

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 caaaagcttc ttttcttagt gggaggaaac tgaaggtag caactttaca gcaccagttg 180
 gagcacgatc cagcactaca gtttgccgag ttggtgagcc tgatangcct ctgtggttcc 240
 cagcagcacc cctctccat ggctagatgg cngtttgcca gagatttggc ttgancncta 300

gnct

304

<210> 4794
<211> 291
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559967H1

<400> 4794

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ttccattctt caggcggaaa aagtccatgt caggtttcaa gcaaccata catgatcggt 180
tttggcataa tccaaatttt attttctcaa attccagatt ttcataaat ggtggctctc 240
catagttgca gcaatcatgt ctttgtctat ccacaatggg ctgctcttg g 291

<210> 4795
<211> 297
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559968H1

<400> 4795

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atccatacat gcgactctc atggccaagg accgttcttn cggaganggc tccttcaccc 180
ttgcctctcc attganagga tatggtgtgt ctcaagtgt ggaatctgga cgtccagaac 240
aagaaagggtg attagtgtgg gggatactaa agggaagagt atagcttggn ccctcac 297

<210> 4796
<211> 295
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559969H1

<400> 4796

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 ctggancnta atgatggtaa aaaccatcat gttgacatgt ctgaggaagg gaggggtgact 180
 gtgttttttg ccaagccact caagtgcaag cctgnntccg cgtttcacta ccgttctgcc 240
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<210> 4797
 <211> 299
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559971H1
 <400> 4797

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 ctaattgtgt gtataccacc tgccgtaatt ttggaagggc ccacactgtt gaagcacggc 180
 ttcaatgatg ctattgctaa agtaggtttg gtcaagttcg tctcagatct cttctgggtg 240
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<210> 4798
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559972H1
 <400> 4798

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 tgaggaggaa gattgatnnn nnnnnnnnnn nnnnnnnnnn nntggtggag gttcatgaga 180
 ttgaggatag tgatgatgag gatggagtgg aggagtatgg atgaggacga tgattgagga 240
 cgacgatgag gaagaagagg nggatnacga cgagggtgat tttgtggagc ctgagag 297

<210> 4799
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 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700559977H1

<400> 4802

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ctcggaacca cctactcttg tgcgggtgtg tggcaacatg acnganttna aatcatcgcc 180
aacgacnaag ggaacagaac gacgccgtct tacgtcgggt tcaactgatac cngcgttca 240
tcggtnttgc ggcnaataac caatcgccnt gaaccccatc aanaccgtct tcgatgccaa 300
g 301

<210> 4803

<211> 207

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559978H1

<400> 4803

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ggaaccaaac agctgggttaa ggatattatg aaggcaataa aagttggcat tgaacctatc 120
cccattcaga gtggattagg aggtgcatat tatttttagga acagcaatgg tgaaaatgtt 180
gctattgngc cncceactgg gngnccc 207

<210> 4804

<211> 108

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559979H1

<400> 4804

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ccaaaccgaa accttggtnc ctnccagatcc tacntgagnn acanattnc 108

<210> 4805

<211> 92

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559982H1

<400> 4805

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acacanccta nnatcgagnc tctntgcacn ga 92

<210> 4806

<211> 299

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559983H1

<400> 4806

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ctggacctgg ggtttcagct cccagttcat ctttctttgg gagcagcttg aagaaggtta 180

ttggctcaag ggtccccaac acaaagattt cctctggaag cttcaagatt gttgctagaa 240

gagaagaaag agattgaaga gaccagcag accgacaagg acagatggaa ggtcttgcc 299

<210> 4807

<211> 297

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559984H1

<400> 4807

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cttcagaact gtgttncatt gtgggaagaa tatctaaagg acccagattg gcatccattc 120

aaagttatca tggttgaagg aaaagaaaag gaaattatta gagatgacga tgaaaagctg 180

aatggggttga aaaatgactt ggggtgaagg gcatataaag cagtgggtgga agcttttggga 240

aataaatgaa catatcctag tggacgatac ttaacctcag tattatggac tataaac 297

<210> 4808

<211> 278

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559986H1

<400> 4808

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 ctccaataat gttggacaat atggttgtag ctctacaaa tggggatgtg gacatatcta 180
 tgctaaaaga agctgtgcag ttgataaatg ggagtatgag actgaggcat caggcaatgt 240
 cacactagat actgtncata aantggggca aagcggag 278

<210> 4809

<211> 295

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559987H1

<400> 4809

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 agctggggac acttcctcct gctcttcttt gtttttatgg tttgacagag ccacttgaca 180
 gaagatggca tgtttttagga ttgggttatg acctaaatat tgacaaccgc ccattgaaag 240
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<210> 4810

<211> 295

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559988H1

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 attgaagaca acaagggatg gaagtggggg ttagtgggtc caactgcatc aatacttctc 120
 tccattccag tttttcttct tggctctcac aagtacagga ccaagattcc agcaggaagc 180
 cccatcacat ccatgttcaa ggttcttgtt gcagcaattt gcaacaactg cagccaagaa 240
 ttcaagcaat gctgtcataa gcatgactac aggtccatct catgcaactg aaaga 295

<210> 4811
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 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700559989H1

 <400> 4811

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 tatatatact ggccattatg ttatatataa aaatcatatg catgccgttt atataaataa 180
 agctatgttg aatantatat ctattt 206

<210> 4812
 <211> 118
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700559990H1

 <400> 4812

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 cttccccanc tgttaccact gtgcaaccgt ntccggtgcc ggcattggttn tccccatt 118

<210> 4813
 <211> 297
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700559991H1

 <400> 4813

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 cacgtgtgcn gtcnaggat cacgtgctcc gatgagtcgg aacccttctg cccgatctgt 180
 atggaaagtt tcgtngaaga atgcaaccct aanaacccta accctaactt ttacnngnn 240
 atgatgaatc ttctgattcc gaaatctnct nctccctgct ccctctctnc actctnc 297

<210> 4814
 <211> 185
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559993H1
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 ccggcgggat ngggcagcct ctctcccttc tcagaagctc cntcctcgnn tngagcctct 180
 cnttt 185

<210> 4815
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 <212> nucleic acid
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 <223> Clone ID: 700559994H1
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 cacctcngga gaaacgaana tgnccaccgt tatccgggat ggcacatttg tgagcaagtg 240
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 aaa 303

<210> 4816
 <211> 301
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700559995H1
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 tggcaaaaact ccattggtat atctcaacca catcgtggat ggttggtgtg ccaaagttgc 180

tgccaagctt gaaatgatgg aaccttgctc cagngtcaaa nacagggata ggatatagcg 240
attgtagacg ctgaggagat aggatcatca caccgggtna aatgtccnca tgaacctacc 300
a 301

<210> 4817
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<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700559996H1

<400> 4817

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gacttggtcc tgcaacttga gagatgcact tgtcctttat caacagatct atatgtcgcc 120
gtattatgtc aaacagtgtg gatttgtatt atacttgggt aatatacnan ttcaatgttg 180
ccttgaggat atttcagtaa tctatttnca tttagagcgg naaaanaaan aaaaa 235

<210> 4818
<211> 168
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700560001H1

<400> 4818

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tggtcggggg aggagtacaa caattgtgct ttgttatctg gttgaatata aacacatgac 120
gcctgctact gccctggaat atgttcggtc tcgaagacct agagtgtc 168

<210> 4819
<211> 290
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700560002H1

<400> 4819

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tgaaggttga gccc aaaacc cagcaatggt ttcacctcaa aagtgggtga tttgttgagg 180
 aaattgggtg tgaagttctt gtatgattct tcactgcccc atcactacct cactggtaat 240
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<210> 4820
 <211> 286
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700560004H1
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 gagctgaccc aaatgcaatt gtcctttct cctttggtac tcttctggga acccagttga 240
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<210> 4821
 <211> 176
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700560005H1
 <400> 4821

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 ggcgaaatgc agcagagggg atactcgctt tgcattacta ctnataacat tatgat 176

<210> 4822
 <211> 178
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700560006H1
 <400> 4822

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gcagctgaga aggaaagtga cgatgagggt tccaaactgc gtaaactctgc tctggaaaga 120
 ttggagaaag ctagtgaaga gtcacttctt agccagggtt tgaaggtttt tgataact 178

<210> 4823
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 <223> Clone ID: 700560008H1
 <400> 4823

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 anatcagtag aggcaaaca ncctg 145

<210> 4824
 <211> 147
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700560009H1
 <400> 4824

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 caacaacgat ggggacgacg ancccagctc cgacctcgtc caaccggaac ctgcttccag 120
 agaagacgac aacaaganta agaagaa 147

<210> 4825
 <211> 170
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700560010H1
 <400> 4825

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 aacactgtnc gagtccatta caggaaactat atctaaaata atctcgacta agggatatgtt 120
 ggctgtatac aatgctttat ctgaagatga aaagagggaa tttgagaaac 170

<210> 4826
 <211> 128
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700560011H1
 <400> 4826
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 aatgttatcg atcaattctc ttacaatct cagcctccgc aacttggtcc actctcttng 120
 gtccaana 128

<210> 4827
 <211> 172
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700560012H1
 <400> 4827
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 ctacgtctct cntccaatcc aaacaccgaa ngaaacgcac tccacgcctc cctacaatng 120
 ccagaataac aaaccacatc gaaggaactc atcttaactc cccagcggnn tt 172

<210> 4828
 <211> 185
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700560013H1
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 gtagacgaag atgttcggaa gggcaccgaa gaaaagcgac agcaccaggt actacgaaat 120
 cctcggcggtt tcgaagaacg cttcgccgga tgatttaaag aagggttaca agaaagccgc 180
 cntta 185

<210> 4829
 <211> 149
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700560014H1

<400> 4829

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 ttcgttgcta caattttggt agcatggcaa tgccatgcgt acgatatggt ccctctccga 120
 atgaacactg gctatggtn cgcgcnc 149

<210> 4830

<211> 163

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560015H1

<400> 4830

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<210> 4831

<211> 172

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560016H1

<400> 4831

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 gcagggctga agcacaact ggagagaaaa tggacgtttt ggtgcgacaa ccaatccaaa 120
 cccaaacagg gcgctgcttg gggactctc ttcgcaaggt ctacaccttc ga 172

<210> 4832

<211> 174

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560018H1

<400> 4832

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 tatccccgtc gggattgga tattcccgtc cccggtttag atatgtannnnnnnnnnnn 180
 nnnnnnttat attaaaaatt tgatttaaaa aataattgat acgggaatgg atatgggatg 240
 agtggtgaca tcctgtcct cgacccaac cttggtttaa aaaatt 286

<210> 4836
 <211> 174
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700560022H1
 <400> 4836

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 ttaaagcaac tcctttcttg gccaggcaa ggggtgccaat gccaatgctc ttagggatgt 120
 tgtctccatg ggaactggga antncaccat gggcaatgat ttgtggnatg gacc 174

<210> 4837
 <211> 215
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700560024H1
 <400> 4837

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 tcagaggttg accctttnaa gcgggtgcca tttgaaaaac ctccatttag tctcagccaa 180
 atcaagaagg tcattccacc tnactgttcn caggg 215

<210> 4838
 <211> 145
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700560025H1
 <400> 4838

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tagatgcaac ctcagcacga gggttaacag attccgaccg tctcaatgaa tgttgatgatt 120
tgtggtactg ttgactcctt ctttt 145

<210> 4839
<211> 156
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700560026H1

<400> 4839

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ggatgatgatc aggatggaga agctaattgtt gacatgctta atataattca tcttctacaa 120
taaattgcttt ggacaggcaa agtagtggtg aagtca 156

<210> 4840
<211> 170
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700560027H1

<400> 4840

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tgtcttcttc gaagagcgtt tcgatgacgg gtgggaaaat cgatgggtta aatcagattg 120
gaaaaaagat gagaacgtgg ctggggagtg gaaccacacc tntggtcant 170

<210> 4841
<211> 147
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700560029H1

<400> 4841

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tgaaaaaaga tgttgagggt tgcagctagg aggtctctct ctctctctc tttttctccg 120
ttgcggccna atcacgccgc ttccggtt 147

<210> 4842
 <211> 137
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700560030H1
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 agaatatttta actggggaat acttcgccgg ttactgttcc tactcttgtg agtatattgg 120
 agcggcattt gaaggtg 137

<210> 4843
 <211> 138
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700560031H1
 <400> 4843
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 atgggncacc tcgctgtgta caccgcgtac agagtcacac tgaaactgta cggaacagat 120
 tcccataagt taaacgcc 138

<210> 4844
 <211> 136
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700560032H1
 <400> 4844
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 tctcttcccc atcttggtg gcaaggcgtg aagctgggnc catcagcccc cgaagtcggg 120
 agggtcagca tgagga 136

<210> 4845
 <211> 208
 <212> nucleic acid
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 <223> Clone ID: 700560034H1

<400> 4845
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 aaganagaag gcgatctgat tgcagatgtg atatattatta tgggagcaat tgggatggca 120
 gctgcaccag acccttatct tctgattctg ggacgttttc tegtgtgtat ggggtgtcggg 180
 gttgcctctg ttacctctcc agnctana 208

<210> 4846
 <211> 279
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700560035H1

<400> 4846
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 acccatggca catgcagcta tcacgtgcgg gcaggtgacg aatagcctga tcaattgcat 180
 cggttacctc cagaacggag gaacgccgcc gtcgggatgc tgcaacggna tgaagagcct 240
 caatgccgcc gccaaagacca cgccgaccgc cagacgggt 279

<210> 4847
 <211> 284
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700560036H1

<400> 4847
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 atagtgcac aacagtagag agacgagttt attgctctgc cgctgcttca atcaccacca 180
 ccagcatggc caggaacagc tattcccgag ccttctgatt tcaagacatg ggatgggcaa 240
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<210> 4848
 <211> 162

<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700560037H1

<400> 4848

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gccttgctctg caagttggca atacacagag acctaactat ttgccaatgg aggtttgcaa 120
gatagtggaa ggtcaaaggt actcaaaaag gcttaatgag ag 162

<210> 4849
<211> 187
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700560039H1

<400> 4849

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ccatgttagc ttggtactca gcgaagaagg ctgccagact tggctctgat cttcaaattg 120
ttgaatccct catatcaggc tgtgttaatt ctagaaagtt taagattgct gatagaattt 180
tgaagaa 187

<210> 4850
<211> 128
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700560040H1

<400> 4850

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gccgtggggg agatacgccg cggagatcag agatcccggc aagaagagcc gcgtctggct 120
cggaacct 128

<210> 4851
<211> 176
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700560041H1

<400> 4851
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 tttacaaaat ggctgtggaa ctcatggggg tcccaaaact agacgaacaa aaggccattc 120
 aagaagccgc atcagaaggc ctcaagggca tgaaacacct gatccgaacc tttcca 176

<210> 4852
 <211> 289
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700560042H1

<400> 4852
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 acgcgctttc gttcacatac aagaacagaa cgacgtcgtt tgcccgcgct gccacggcgg 120
 cttcgtcgaa aaggtcaccg ccccccaatc gtcaaggcaa ggcttccgcc gccgacgccg 180
 caacgcgggg aaccactcgg cgttcaaccc ggtgatcgtg ctccgcggac cgggagagga 240
 cgaggagagc agctttgagt tatactacga cggcttcgac ggcgagggg 289

<210> 4853
 <211> 142
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700560043H1

<400> 4853
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 cttatcacag tcaccccgat accaaagttc tgcaggctat gcaactgatt ctattgtcag 120
 tcatcagttg catagcctgc ag 142

<210> 4854
 <211> 115
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700560044H1

<400> 4854

<210> 4858
 <211> 276
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700560050H1

 <400> 4858

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 gctacagctg cacccgtttc gtgcacctct ctgtccaaag caccatcgcc tgccccact 120
 gtcaaagcgg tttcgtcgaa gagatccgtg ccggcgccgg agccgaagcc tcgccacgcn 180
 atcgactaag tcctttcccc gatgatctct tttgctccgg cgacaggggt cngccgccgt 240
 agagagaagt tccggaanng ctcccgttna acccgt 276

<210> 4859
 <211> 281
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700560051H1

 <400> 4859

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 aactcactc ttctaaagct tccaatcctt cctaacaagc cattactgcc acgcccata 120
 acctcaaaac tttttccact tccttccatc tattcaaaat taaatatccc aaaagattat 180
 attgtttctc ctaacaacat cgatgctctc aagcctgcct ttctttccct ctcggcaatc 240
 acatttccat tgttattaga aaccaaggat gcattgctgt t 281

<210> 4860
 <211> 231
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700560052H1

 <400> 4860

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 aggcgtgcng gcaatggcgg cggtagccgt tgccgccctt gacttgacgg aatcctccaa 120
 ctggtggcgg gacatcaacc gctccccgnt ctggnaggat cgcattttcc acctcctcgc 180

natcctctac ggaatcgtcg ccgccgtcgc tctcgtacaa ttagtgcgat a 231

<210> 4861

<211> 141

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560055H1

<400> 4861

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caacgggaag tctcctctca cagtttttcg gggaccaatt gtgcatgaag tgcacagaa 120

gatcagcca tggntatacc a 141

<210> 4862

<211> 175

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560056H1

<400> 4862

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cattgctctc nttatcaaat tggactccat gcacaagaag atccttgga tttgctttgg 120

ccaccagata attgggcgtg cattgggagg aaaagtgggt cgctctccca atgggt 175

<210> 4863

<211> 175

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560057H1

<400> 4863

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cttcttagca caaaggattt catctgtcaa tgccatgtcc agcatttggt agggt 175

<210> 4864

<211> 97

<212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700560058H1
 <400> 4864
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 gtngtccggt ggagataaac ggcacggact cggcaac 97

<210> 4865
 <211> 153
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700560059H1
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 ccatggattc agaacagtgg gagttttctt aaaaagcaaa tcagcaaatg ggatccttct 120
 atattcactc aatttgatat ggtttnccca gat 153

<210> 4866
 <211> 155
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700560060H1
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 ccttccctct tctacgcaa aaacaaaacc ctttctctct caattccac taatcctctc 120
 aacctgcaat tcccatgctc aaactcttng ntttt 155

<210> 4867
 <211> 139
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700560061H1
 <400> 4867
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agttgtgaag ctactgttgt ccagaatgt ttgaaccaac aganaacgag gtcgctcagg 120
aggggattng gctcatgcc 139

<210> 4868
<211> 130
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700560062H1

<400> 4868

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ctaattgctgg tgggtcaatg atgagaacca catctcagtt gacttatcca gatgccaatc 120
ttnnaagggg 130

<210> 4869
<211> 169
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700560065H1

<400> 4869

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ttaccttctc agccgaggct acaagacaaa gtcttggacc aagatcactc caatctccat 120
ttggcttctc aagaaaagcc tcctttcttg ttaaggcagt gtactcccc 169

<210> 4870
<211> 169
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700560066H1

<400> 4870

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gattgtgctc aacggtagta gtggtgcccc agattcatta gaagaanct 169

<210> 4871
 <211> 269
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700560067H1

 <400> 4871

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 cacccaactt tccttttggg gagggagtcc actctctcca accccgcaaa atcacccctc 180
 atcgacaatt tcaaaggcct cgggtgtcaat cttgttttag gagatctata cgatcaccaa 240
 agtttgggtga gtgctataaa gcagggtcga 269

<210> 4872
 <211> 269
 <212> nucleic acid
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 <223> Clone ID: 700560068H1

 <400> 4872

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 gctcttcagc cacattatgg gccttttatt ggttgtggac atatggaggt tactcaggaa 180
 atttgtcccc taaatcagct ttcgagcttt tggctgagga cgcaaagtct gcacttattg 240
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<210> 4873
 <211> 277
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700560069H1

 <400> 4873

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 tccccacat ggttaagcca attgcaccgt tggatttggg gagggaaaag agagatggga 120
 gtgagagtgc aaatgctctt ttatctgggt tggcaattgg ggataagaat aagaatatta 180

ataacaatag tagagtagag ggaattggag ttccgaagat ttttgggcag gatttgaatt 240
gtgtgactca atttagggag aaactgctgt gaggaaa 277

<210> 4874
<211> 217
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700560070H1

<400> 4874

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cataatggct aagaaatcaa gccctcaga aaaagaagct gcttttgctc tggctgctct 120
aatggagata cccttccaat ataaagcagc cactgaactt ggactacttg gtcgtgcaac 180
aggaagatca aataaaatag ttccaagact tcttcag 217

<210> 4875
<211> 170
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700560071H1

<400> 4875

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attaaagagc agaggcaagt aaagaagaaa ttcaatcaaa tgaagacaag tgggctaaat 120
ggaagagggg tggatcatt ggtgctcctg ccttaaccag ggggaccttg 170

<210> 4876
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<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700560072H1

<400> 4876

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<210> 4877
 <211> 162
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700560073H1
 <400> 4877

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 gatagccggt gtcattgtca gaaggagaag gcattgcgtt tt 162

<210> 4878
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 <212> nucleic acid
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 <223> Clone ID: 700560074H1
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 tatgggctac gctgatgtcc tgaatttgtt gttggccgtg gtggtttggg gcaactgctta 120
 cgttactgtt gtagttctcg cttcctttcg agcgtttnc 159

<210> 4879
 <211> 163
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700560075H1
 <400> 4879

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 tccttcatgt ttttggaac caaatggcaa gagttgcaaa gagcgtacta aggtttcatg 120
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<210> 4880
 <211> 112
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700560076H1

<400> 4880
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tccactgtcg gagctgtcaa cagagctctt tngaacctga atggttnnngg ag 112

<210> 4881
<211> 163
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700560077H1

<400> 4881
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tgaagtttgt nagtttcttt ggcattgaac aatgatattg ttc 163

<210> 4882
<211> 141
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700560078H1

<400> 4882
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tctccaacca tcnaaangca c 141

<210> 4883
<211> 164
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700560079H1

<400> 4883
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agtacatggt tggcgtgtta gcatgaagat caagctcata cccggagact ctgctggcac 120
tgtcactgna ttttatatga actctgacac cgacactgta cgtg 164

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<210>      4884
<211>      95
<212>      nucleic acid
<213>      Glycine max

<223>      Clone ID: 700560080H1

<400>      4884

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aganagaaac cagttnaggg tcccatnccg gattt                                   95

<210>      4885
<211>      145
<212>      nucleic acid
<213>      Glycine max

<223>      Clone ID: 700560082H1

<400>      4885

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tacagctgca cccgtttcgt gcacctctct gtccaaagca ccatcgcttg cccccactgt  120
caaagcgggt tcgtcgaaga gatcc                                           145

<210>      4886
<211>      276
<212>      nucleic acid
<213>      Glycine max

<223>      Clone ID: 700560083H1

<400>      4886

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ttgtttgggt actttagcca gaaaacagga ctcttggttc acttgaggga ctcccatttg  120
acacgcattc agaacaatgg tggcgaggca gtatattggg agaccacaat aaattcattt  180
cttgacgatt acaggcctgt cgaggggata atgattgctc actcgggtcg atccgtgggtg  240
acgcttttcc ggtttgggga aacagcgatg agtcac                               276

<210>      4887
<211>      92

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<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700560084H1

<400> 4887

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gagcttcaga acctgtgttc cattgnggga ag 92

<210> 4888
<211> 276
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700560085H1

<400> 4888

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atggaatggg gaaacttttg gtcattctcat ttaccaagaa catcttatga tattgattta 120
gactctgaaa gccctaattcc aaatgatcag ggttttgaga aaatgatatc tggaatgtat 180
cttggtgaca tcgtgaggag agtcatncta aggatgncgc tagagncnnt ntnnctngnn 240
ccnattcttc caaactttca agccnntatg ctgagg 276

<210> 4889
<211> 74
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700560088H1

<400> 4889

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nnnnaagagg ngng 74

<210> 4890
<211> 106
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700560089H1

<400> 4890

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<210> 4891
 <211> 137
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700560091H1

<400> 4891

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 aactgggatg aagagga 137

<210> 4892
 <211> 175
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700560092H1

<400> 4892

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 ctcttcagtg atggcatctg tggccctcaa acctgccctt ttcactgttg agaagtcctc 120
 agtgagaggc cttccctctc tctcaaggaa ctcttcttca ttcagagttg tggcg 175

<210> 4893
 <211> 137
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700560093H1

<400> 4893

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 cagagatcan cgtgcta 137

<210> 4894
 <211> 117
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700560095H1

 <400> 4894

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 gagtntcttc ataacaaagc ttgcttctca tgctttccan gaagcttctc ggntcgg 117

<210> 4895
 <211> 200
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700560096H1

 <400> 4895

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 agagaggctc gcaggettgc aggttggtcc tccgggtctc gaccccgaaa ctaangtgga 180
 atcgaaagnc gtnntattcg 200

<210> 4896
 <211> 306
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700560101H1

 <400> 4896

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 nattncaaac ttgcaaccan tagacctggt gacaccgnat gccaaattaa gtgtggggac 120
 ctgttcgaaa atagtgtggt ngatgaantc natgagtgtg cagtctcagg aagaaatgtg 180
 tacntaagaa gtctgatgtg ggagaatttc ctgctccaaa tcctgatgtc cttgtnaata 240
 gcttnaacat tgctgatttc agtgggcaag tggttcacac tngtngcttg aatcctacct 300
 tcgata 306

<210> 4897
 <211> 313
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700560105H1

 <400> 4897

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 ggatgccgca actgngnctn gcctgatgnt ggtgttatch cntgatgtta tangtgcag 120
 ccgtcgaggt tggttatcgc catattgatt gtcctcaaatt ttacggcaat caggagggat 180
 tggtttagca ttacagaagt tatntnanga ggggtgtagtc aagcgagang atgtattcat 240
 nacctctaaa ctctgggtgta cagatnatgc tccagaagat gtacnagang ctctggacag 300
 aacntganag nnc 313

<210> 4898
 <211> 305
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700560107H1

 <400> 4898

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 gagacctcnc aagtccatcc caaggacaca tttgtgttca gtatagatgg caccgtactc 120
 tctaattatc catactacaa aaaacatgga tatgggggtgg agaaattnac tcgaccttgt 180
 atgatgaatg ggttaacaag ggcaatgcac cggcactgcc cgagactctt aagaattaca 240
 acaagctggt gtctcttggc ttcaagatta tattcttgtc aggaagaaca ctggacaaac 300
 aggcc 305

<210> 4899
 <211> 308
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700560109H1

 <400> 4899

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ccgtgntgcc tgaangatgg ccaatgcntt accatgnact tggtgaaata cttgctantg 120
gtaagagggga aagcaaaaaga acccaaggtc gacagtgagc tcatttatgc attgcaaaaa 180
tagataggct gagtgcacatt gaggagttca ttcttatgcc taatgttgct aatcttcaaa 240
atgttggtga ccggttgtag gatgaagcat tatatgaagc tgcaanaatc atattgcttt 300
tatatcta 308

<210> 4900
<211> 301
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700560110H1

<400> 4900

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tgctncngaa actgcaaagc aggggactca agctgttaaa attcagccca ttgaagtcc 120
tgaattacaa gtggatgaac tcaaagaaat caccgatggc tttggaaaag ttctttgatt 180
ggagagggat cctatggaag agtatattat ggtgttctta aaagtgggca ggctgcggca 240
atcaagaatt agatgccagt aaacagcctg atgacgattt ttagcccagg tttcaatggt 300
t 301

<210> 4901
<211> 299
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700560111H1

<400> 4901

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tggagggnatc tctacctcac gatccctntn ttctnttaga accatcatgt cacaatctga 120
tcattctcnc tgcttttacc acaccagat tagttctcaa gaaggtttg ccaaatctca 180
ccatgaaggg gntgaanctg tggttanaan aggcnttga agggngcggn ttaaaaaanct 240
gganccntcc cnanggtggg atcnttctga gnntcncccn gaagggnctn gggannncc 299

<210> 4902
 <211> 301
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700560112H1

 <400> 4902

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 gacatcgcca tggaaaagga caagtctcac actcacagct ttcttacagt atcgtcaaac 180
 acttcaaatt cgggtcaccg aaaggattct gtttctgctc tgttggtgtt gatcagagcg 240
 aaacaatgaa gctgacgtac accaaatggc tgcacaggag cagaagatct ttgcctagaa 300
 a 301

<210> 4903
 <211> 305
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700560113H1

 <400> 4903

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 ccgaatgaac actgggctat ggtncgccgta ctccggaggt gaaatgcgaa gttggaggct 180
 tgctgtggna gcacacaaca tctttanctt tgagaccatt cctgaagagt gcattgaagc 240
 aacaaaggaa tacatccatg ggcgaacaat atagatcaga tccaaaacag ttaaccaaca 300
 agctt 305

<210> 4904
 <211> 302
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700560114H1

 <400> 4904

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taaggaacaa ggttcacatg cagtattgtn gttattggcc atgttgactc tgggaagtcc 120
actaccactg gccacctgat ctacaagctt ggaggcattg acaaggtgtt attgagagat 180
ttgagaagga agctgctgag atgaacaaga ggtctttcaa gtatgcctgg gtgcttgata 240
agcttaaggc tgagcgtgaa agaggaatca caattgatat tgccttgtgg aagtttgaaa 300
cc 302

<210> 4905
<211> 293
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700560115H1

<400> 4905

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cntgatggca ccaaaggcag agaagaagcc agcagagaag aagcctgtgg aggagaagaa 120
atcgacggtg ggagacaagg ctccggcgga gaagaaccaa aggccggaaa gaagcttccg 180
aaggagggag ggcgcggcgg agaaggtnnn nnnnnnnnnn nnnnnnnnnn nagegtggag 240
acatacaaga tctacatctt caagttctga agcaggttca ccctgacntg gta 293

<210> 4906
<211> 296
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700560117H1

<400> 4906

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gtnnncgtga tgtattcaga aagcctacat ttgcccgtn tctttcactt gtagtnatta 120
caatccacat caaggntgta aggaagtagt cacatctgag ngaggnaaga gcaagcttct 180
ttcatagaag naatcagtag aacagcacca attaatgtat tncacaagta tcttgcatnc 240
aagcaaattg tatcagggaa ttaccnagat ttcaaaagaa tgttaccagt ctgtgg 296

<210> 4907
<211> 305

<212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700560123H1

 <400> 4907

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 ccttntatca ctatcagatt tagggtcctt tctgccatac tgcacacgtg aagatggcag 180
 caacatcatt ttctggcatg caatttgcaa tgtcaagatc atgcattcct gcatcacaaa 240
 agattgcaga tgctgggtgcc gtgggttcttg gcggcaagtc caagattgga tctgtggaata 300
 acttg 305

<210> 4908
 <211> 298
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700560124H1

 <400> 4908

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 tcaagnntgt gtgaagatgg gggcgggtgg ccgaactgat gttcctcctg ccaacaggaa 120
 gtcagagggtt gaccctttga agcgggtgcc atttgaaaaa cctcatttag tctcagccaa 180
 atcaagaagg tcattccacc tcaactgtttc cagcgttctg ttttncgctc attctcctat 240
 gttgtttacg actcaccata gccttctggc tctattatgt tgccaacat attccacc 298

<210> 4909
 <211> 235
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700560125H1

 <400> 4909

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 ctttaggata agaggctaaa tattcgatca catgtactag tatagttatc catattttaa 180

ggcaatgctc aaattgatta ttagattaat tcaaagttag taacttactg taaaa 235

<210> 4910
 <211> 297
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700560126H1
 <400> 4910

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 agaagtgctc atcaggaaga ggggtttctc tgagactgaa actggtcagc aagatgagtc 120
 tgccaccact gtggatttga tgcttaatct ttcttctaag agnnnnnnnnn nnnnnnnnnn 180
 nnnnnnnnnn nnnnnnnnga taagcacaag actttgccta aggagaagac ccttctgcc 240
 gcagatcctg ctaagcctcc agccaagacg caggtggtgg gttggccacc tgtgcgg 297

<210> 4911
 <211> 299
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700560128H1
 <400> 4911

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 aatttgtagg ggatatttaa catcgtgtac attgtgctcc tttaattatt ttcacagtt 120
 ggtgtttga tggatggtga taatggtctt aacatacgtg attgggttac tatgaacccg 180
 ctacgtcgtt taagagccac ctggggctgc agctgatgtc atccttgccg gaaaaacctt 240
 taattggagg gcgcaatgct gtggttttag ctggcactga tggggcattt caccatagg 299

<210> 4912
 <211> 296
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700560129H1
 <400> 4912

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gtccccgccgc cgcggaggac gcagagttcg gctgtcgagg gtgggtcgcc gccgcctcct 120
 ccggcggaga gcgagaaaga gagcngcgcc tccgtggaga agctccgttg gagtccaagg 180
 tgaaggagag agaggagcaa aagctgagga tgaagctggc gaagaagata aggttgaggc 240
 ggaaaaggct tcttcggaaa cgcaattgag aaagaaggta gatggccacc ttctaa 296

<210> 4913
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700560130H1
 <400> 4913

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 aggtgntcnt gataagcaaa aataaanatt tgcttgctta agtgaaagtc cacgttttcg 120
 cccaagcatg gaacaagtgt ataacgagtt tgtgatgcca acatatcttc agtgaattta 180
 ttctccatgg tcacacttag tcaactcgtt gataatgaac cttgtttcca gcctgttgta 240
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<210> 4914
 <211> 297
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700560133H1
 <400> 4914

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 gctgactcca acgtcgaagg cgctggtgaa gccaccgagg atgtttcttcg tataatgttg 240
 atgaagtttc ggaaggcgaa ggagaacaag tttcggattc tgaagctcca aaatctc 297

<210> 4915
 <211> 301
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700560134H1

<400> 4915

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cgttgcaatg gcccgggtact tactgcaaac gcacccgcag ttgtgccccca ccaacggttg 180
ctgcagaggc tccaattttc caacagtgtt caccatacat ggactctggc ctgactanaa 240
tgatggaacc tggccgtcct gttgctctgg atctagtttc gatccaaaag agatattgac 300
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<210> 4916

<211> 272

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560135H1

<400> 4916

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ngatgccaat aacttnagta catcactgat cacttccggt acaaatttgc aaatgagagg 180
ctganaagaa cagcaagata ttactcatcc aattggagaa cttggggtgc tgtcaacatc 240
aatttgcttg gagagttaca ggcagaggat aa 272

<210> 4917

<211> 299

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560136H1

<400> 4917

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atgnnctatc tcattagagc tcatgaagga ccccggttac gtctcaccgg catcacctac 180
gaccgncaca gcatcgagaa gtggctcttc gccgccgtgc cgaagaacaa cacgtntccc 240

gtcacgaagc agcccctcct cgcgganctc antnccaacc acacgctccg cagctcatc 299

<210> 4918

<211> 298

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560138H1

<400> 4918

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aatctgnttc ancancctgt tggaggtan aatgcttagg tcaccattgg aanctgatga 120

tncaggaag aacaataatc caganacgaa gatatatgac aggatgagct tcttggcang 180

gatgcagtca gaggcagann agatagtaga gatgaggaga nattctagct nctgacacag 240

ggccgtctaa cattcaatct tctggtgaaa atgttggtgg tagttcctca tcaaataa 298

<210> 4919

<211> 292

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560139H1

<400> 4919

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ttctcaaaat cacntcatca ttgaggaact tggcctgcat ttgaaagggt tcaaccttca 120

acgcttcgat ttccttctgc tgggcacgtc agaattggac actgacacaa acctcgtttc 180

cctctttcgt tgtcaaagcc gccactgttg tcgcccccaa gcacaccact gttaagcctc 240

tgggtgatag agtactggtg aaaattaagg atgcagagga gaagatgcag gt 292

<210> 4920

<211> 296

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560140H1

<400> 4920

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<223> Clone ID: 700560148H1

<400> 4923

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 cctccacat catcaactac accgacaatg aggtcatggc cagtacgagg agtgggtggg 180
 gaagcaccaa aaggtgtaca atgagttggg aaagaaggac aagagattcc aagttttcan 240
 ggacaactta ggggtcatat aagagcacia caacaatcta aacaacactt acnaacntg 299

<210> 4924

<211> 291

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560149H1

<400> 4924

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 tctgttatca cagttgttct ttcaacttgc atgggtgggt ccatagtaaa gttccttcct 180
 ggattagagg gaccccttcc ttttgttctt gaaaccgggt atgtgggagt gggatgaatca 240
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<210> 4925

<211> 293

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560150H1

<400> 4925

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 gacaagttaa aatgcaagga ggatttcaat catttttgtc acacgggaat gtcattagaa 120
 atgctgttct acaacgggtg cgcattgtga acccccttta cagccaattg tctcttcgcg 180
 gtttgaatct gttacacctg ctgcattga ggagcatggg tttgagagca ccacaatttc 240
 agacatcttg aatgataaag gcaaggggtg tgatggctcc tggctttggg gca 293

gctggccact cagtcacat actcactgtt ggtgaagagg ctccgacaag atgaagaaac 180
 ctcccttcaa nagattctca gaaattgtga gtgccggagg gcgcacggtg tggggaaatc 240
 ctgcagaagt agggagtgtt gtaggagggg nagtgtttna tcccgnccttg gaca 294

<210> 4929
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 <213> Glycine max
 <223> Clone ID: 700560155H1
 <400> 4929

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 ggccaccaga taattgggcy tgcattggga ggaaaagtgg tcgctctccc aatgggttggg 180
 acattggtgt taaagcnata aacgtgtcat catctntacc cttggcttnc tcatctctta 240
 agctcccatc aaagctttcc atttacaat gtcaccggga tgagatccta gagct 295

<210> 4930
 <211> 296
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700560156H1
 <400> 4930

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 tcccgngtct acaacgangg aaccgtggaa cgcttcttag gttccccgca cgtgccaccc 120
 tccctcttag accccgaaac attagtctcc tcgaaagaat cgtcatctcc gaaaaccct 180
 ccatctccgc gcgcgtgtac ctccgcca aactcaacaa ntcccaccaa caaaagcttc 240
 cgatctttgt ttacttccac ggcggcgcgt tctgectoga atccgcgttc tcttc 296

<210> 4931
 <211> 292
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700560157H1

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gagtttagct ccaattactc gacgggaccg nccccgtgcc tcttccctca ccaaactntg 180
ctctgggcct caaagggggc accttcactt acgaggnatt agcagctgcc accaacggat 240
tcaatgatgc nnatttgata ggacaagggt gattcggcta tgtccatang gg 292

<210> 4932
<211> 296
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700560158H1

<400> 4932
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gncacaanag gcagtggaat gaggcacgc caaactccct gaagatttga gaagtcgtgt 120
tagacgattt gttcaatata aatggctgct actcgtggag tgatgaggaa accattctac 180
gtgccttacc tgctgatctt cgccgtgata tacagcggca tttgtgctta gaccttgta 240
gaagagttn cttcttctca cagatggatg atcagcttct ggatgcaata tgtgag 296

<210> 4933
<211> 294
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700560159H1

<400> 4933
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ttcaagaaag ggactacctt ttggatttgg caaccttgan ctcacatgtg tctgctgat 180
gatgatacca natctgtgan ggttcttgtg caaatcacat tactgttctc caaacatcac 240
cggcggccac cgcaatgac tacttcaa atccagngggac aaacagtttg gggg 294

<210> 4934
 <211> 291
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700560160H1

 <400> 4934

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 aagaagcntg tgaactcaaa agatggacct ccaacctttg agcagcccaa gatgactctg 120
 gagaagctct tgctgtatgg taacatgctt gtccaaaaca agagaatgtc aagagagtcc 180
 aattggctga caagtacttg aacgaggctg ctcttggaag tgctaacgag gatgctattc 240
 agaggggaac tttcttccag tcttgaattg gaggcaaagc aaacttggca a 291

<210> 4935
 <211> 298
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700560161H1

 <400> 4935

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 agnagggtga ggcanttcn agcatcnngc gcaaggcnac aactaangca tncacgtcac 120
 agacctgggc tgctcttgca tcgtttgcat tcaacctccc agtgaaaggc cccaagcat 180
 aagcagacat gcacatgtaa tgtatgctta ncagtgaagc gacgtttccg tacccttatg 240
 ttacggcgtg agaagaaaca atcagaaaaa gaagcagaga caatcgtaaa aagcaaca 298

<210> 4936
 <211> 297
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700560162H1

 <400> 4936

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 anacatgcat ttggccaacc atgggggtca aagttttcat cctgtcgagg ttgatttgcc 120
 agccatgatg gcccaaaaag ataaagcagt ttctaattctt acaagggtat tgaaggtcta 180

caagtcacaa ncacttagnt caaggaggct cgacgctagg tnaagagtta actatcccac 60
 aaaattgtna tgtgaatgct cataaatana ctttgttaca tcaacagtct ccctaaaaaa 120
 aactttatta catgaataac atgctctaaa atatatttga gggaaaatgg cacatgattt 180
 tgactaattg accttttaaac ttgtagcaga tagaattcat tcaacctttt acagtnaggt 240
 agtgactacc tgagtctggt acatagatgc angantaaat annagaacat cc 292

<210> 4940
 <211> 291
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700560166H1
 <400> 4940

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 tcgccttgag acgcaacctc atactcctan ctcttccttg tacnttccgc agtctccatc 120
 atcggaattt ctcanctgtt tgttctgata tccaaatcct ggctatgttg attgccattc 180
 aaattgtaat aagtctacat ctcaagcgtc tttgtttttg tgttccgact ccaacagtag 240
 naganaggtg ttttnggtag accactttgt gtgaaccctt ctggcaggag a 291

<210> 4941
 <211> 289
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700560167H1
 <400> 4941

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 aagcagaatt gctgcagaac gtcaaaaaac tgctgattct gcaattgcaa acatcacttg 120
 cagcaattca gtgaatatat atgttggtat tgtgttccat ggcttattga tactttgtac 180
 aacttcatag catatagaga acctctccga atccaaaatg caggggggact aagcttttctg 240
 ttgattgttt tcttctccac ttctgtcggg tgtatctcag ttttggttt 289

<210> 4942
 <211> 290

<212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700560168H1

<400> 4942

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 ccacagaagg gctggaagtg actggaaaaa ggggaaatca ctgagcattg gcatgagctg 120
 aaaaccagat aggnagacagt ttctgaaaaa aaatttagca ctaatagggt ccaccggaag 180
 gcatganata gttgtctctt gtcaagctct ggataacatg ttgaaagtaa gagtttggcc 240
 atcttgagct ggtgccattc taagataaga acatctcttc agcttttggc 290

<210> 4943
 <211> 290
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700560170H1

<400> 4943

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 tcttctcat cattttgcnt atacaaagat tanaatgaac ggtttttggn gatngcttca 180
 atatgatttt gctgangttg tgcttcacca acttgagcat agctttgctc aaagtcatat 240
 gaatggnttn ggagagcagc cactggccaa gattgccatc acaagaccgt 290

<210> 4944
 <211> 294
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700560171H1

<400> 4944

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 tcaaccatcc gacggccatg aatcttagct atgagcagag gctccagggt gtcgccagac 120
 tcattctcga cgaagactca cgccccggag acgcgccgct taccaggagg agcttgggct 180
 gagggtgacc ctcaagccgc accaggtgga aggggtttcg tggctcatat ggaggtacaa 240

actcgggtgtc aagtcgtcct cggatgatgag atgggatggg caagactttg caag 294

<210> 4945
 <211> 289
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700560172H1
 <400> 4945

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 nccnmatgcn cgtcacgcnt ttcgtaaccg gatctgtatg gatttgatcc agatctacac 120
 gccgatgggtg gttttggccg ggtctttcat agattgggtc gtagaggctc agatctacgg 180
 taccgaggta caacagagaa tcgatgacaa gaacgcanat cgcacggtag atccagccga 240
 ttccgcttgt tcgatcgcta cagaccctg tatcggtatc taagcagcg 289

<210> 4946
 <211> 295
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700560173H1
 <400> 4946

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 gccattngca gctgttgncc atctnccaca ccaagttccc agaagaatgg atcactcttg 120
 ggaagcacia aagcttcttt tcttagtggg aggaaactga ggtgaacagt tttacagcac 180
 cagttggagc acgatccagc actacagtgt gtgcagttgc tgagcctgat aggcctctgt 240
 ggttcccagg cagcaccctt cctccatggc tagatggcag tttgccagga gattt 295

<210> 4947
 <211> 299
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700560174H1
 <400> 4947

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ctctnctact caanactncc acgaatntgt acatctacgc ctccncccc tntcgtggtt 120
nccacaangg ttactcnttn tncctntcct atttcaaccc atgcatggct tgtctgagcc 180
gntnnnnnnn nnnnnnnnnn nnnnnnggcg ccagctggct ctcttccccct gacgaaatgc 240
tccaacantg cccctctnc gnccaccacc gccgtctncg cgatgacgac gccgaacct 299

<210> 4948
<211> 286
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700560177H1
<400> 4948

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nagaaangaa cgggccntaa tgantncaat gtaatttctg aaactgataa ttaaaccattt 120
gattnggttg tgcagcatga cgtggatgct ggtgtttgaa gaaagtgggtg ttggctgagg 180
gagcagcggg taccgtcaaa ggtgcaagat ccgttagtct tcggcaacct cttgatttcc 240
ctcttccgtt aaaccgaacg gagaatgggtt tgctaacggt ctttaa 286

<210> 4949
<211> 291
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700560178H1
<400> 4949

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antgctggat ctctctctc tgctatatat agatanncat atttattgat tgtctatgaa 120
taaaatcttc aggttttgggt acagttgtaa taattgggtg tgattggatt gaagagaaaa 180
agaagattat gaatatgggg ttgaaattga aggagacggt ctacttgtcc catggagcac 240
caagtctagt catagatgat tcaatccctg cgtggcactt cttcaatcct g 291

<210> 4950
<211> 287
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700560192H1

<400> 4950

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 caactttgca gcnaaantct actcagtcca tttccaaggc ttttggtttg gaacctgttg 120
 gagctaaaaa ggtcacatgc tcccttcagg ctatcttaag gacttggctc acaagtgtgt 180
 tgatgctacc aaaattgcag gattcgccct tgccacctct gccctcgttg tctctggggc 240
 aagtgtgaa ggtgttccaa agaggctaac cttcgacgaa atccaga 287

<210> 4951

<211> 297

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560201H1

<400> 4951

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 gtatctcaaa gctgctgcac tctacactca agccatcaag ctagaccctt ctaaccctac 180
 cctctatagt aatcgtgctg cagcactact gcaattggat aagcttaata aagctctaga 240
 tgatgcagag atgacaatca aattaaaacc ccaatgggaa aagggatatt tcaggaa 297

<210> 4952

<211> 293

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560202H1

<400> 4952

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 gagcttcagc tcccagttca gccttctttg ggaccagctt gaagaagggt attgcctcaa 180
 ggggtcccaa cagcaagggt tccggtggaa gcttcaagat tggtgctgta gaagagaaga 240
 aagagattga agagaccag cagaccgaca aggacagatg gaagggtctt gcc 293

<210> 4953
 <211> 193
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700560203H1

 <400> 4953

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 attgattcta atttnntatc ttcttaacat gcacactttg ctttcagaag cccttactca 120
 ccctccactc ctctctcacc caccgccgaac tcgtctcttc acaaaacntn cnagcncgtc 180
 ncttcttncc tca 193

<210> 4954
 <211> 287
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700560204H1

 <400> 4954

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 aaggaaaagg ttcacatcag tattgtgggt attggccatg ttgactctgg gaagtccact 120
 accactggcc acctgatcta caagcttgga ggcattgaca agcgtgttat tgagagattt 180
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 cttaaggctg agcgtgaaag aggaatcaca attgatattg ccttgtg 287

<210> 4955
 <211> 287
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700560209H1

 <400> 4955

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 ttggtagcat ggcaatgcca tgcgtacgat atgttccctc tccgaatgaa cactggctat 120
 ggtgcccgta ctccggaggt gaaatgcgca agttggaggc ttgctgtgga agcacacaac 180

atctttggct ttgagaccat tcctgaagag tgcgttgaag caacaaagga atacatccat 240
ggcgaacaat atagatcaga ctccaaaaca gttaaccaac aagctta 287

<210> 4956
<211> 285
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700560210H1

<400> 4956

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atcgtgttgg cgtctgcaat ggaattttcc gcactgacaa tgttcctaag gatgacattg 120
tcaagcttgt tgacaccttc cccggccaat ctattgattt ctttggtgca ctcagggcta 180
gagtatatga tgatgaggtg aggaagtgga tttctgttgt tgggtgttgac ttcattggga 240
agaagcttgt gaactccaag gaaggacctc caacctttga ccaac 285

<210> 4957
<211> 285
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700560211H1

<400> 4957

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tttacattct aactatnnnn nnnnnnnnnn nnnnnngcct tatccacta ggtggggctg 120
gctacatgga tcaacttccg ccataatggt ctatcaagta ccatacttct attgataaaa 180
tatacagact gaaaatgtaa atgttattac ttattatttt agtattttct gtttataatt 240
caatattcat gtagttctat cattaatctt cttcagatat gaagt 285

<210> 4958
<211> 285
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700560212H1

<400> 4958

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 acttccattt tccaatttcc aatttccagt ggagtagaac acattcattc aattgcaatt 120
 tantataatt tcatatatcc tccaatattg ctggtgggta gcactcacan gagacaggct 180
 caactaccag acaaattttc cattcccggc atctcctcca aacctacgta cccagatac 240
 cctaaattcg attcatacac ataacacaac acaacctcgt tcctt 285

<210> 4959
 <211> 285
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700560213H1
 <400> 4959

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 tacttactgg aacagcattt caacagctga gctctttcat tcaccaacca gccgaccaat 180
 atcctgtaac aattggcact gctattcctt taaaagcaag ttttttcatt acttatataa 240
 tggttgatgg atgggccagt atagctgcag aggttttgat gttga 285

<210> 4960
 <211> 285
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700560214H1
 <400> 4960

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 gtaagaaaca gcatcgtatt catgatgttg cccctcatca tatccataag gtggaagtgc 180
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 ctggtgagac cttaaaggag agagttgatt ttgatgatga aaaca 285

<210> 4961
 <211> 287

<212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700560215H1

 <400> 4961

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 tctacgccga cgtcactccc cgcaccgccg agaacttccg cgcgctttgc accggcgaga 180
 agggcgtagg gcgaggggca agccctcca ctacaagggc tcgtccttcc accgcgtgat 240
 cccgagtttc atgtgtcagg gtggcgactt caccgccgga aacggaa 287

<210> 4962
 <211> 98
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700560216H1

 <400> 4962

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 aaaccnatta ttattgatta ttgattgata ntaacatt 98

<210> 4963
 <211> 289
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700560218H1

 <400> 4963

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 ttggtagcat ggcaatgcca tgcgtacgat atgttccttc tccgaatgaa cactggctat 120
 ggtgcccgta ctccggaggt gaaatgcgca agttggaggc ttgctgtgga agcacacaac 180
 atctttggct ttgagaccat tcctgaagag tgcgttgaag caacaaagga atacatccat 240
 ggcgaacaat atagatcaga ctccaaaaca gttaaccaac aagcttact 289

<210> 4964
 <211> 287

<212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700560219H1
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 tgctggttat gtgactgaag ctacaagagg aactggagta gtatcagcca gcagtttggg 180
 ccttgttgaa atattgatgg atgcggatca atggtcggag atgttttcat ctatgattgc 240
 tagtgctgcc actgtggaag tactatctag tggcacgggt ggaacca 287

<210> 4965
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700560220H1
 <400> 4965
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 caaggaacaa atgcttgatc tgcttcctat gaatcanctc gctactctgg tcagaaatat 120
 ccagcatttg ttccttgtat gtatatgttt tcctctctct atatctcttg ctttgttttg 180
 ttgtgcttca ctactagatc tgaatttttt ttgtctgtta ctattcatca tccactcatt 240
 aagcaatcag gggtaactag gtggatatat nccaaata 278

<210> 4966
 <211> 286
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700560221H1
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 aaactcgcga attggaaaaga catcgacggc tccgcgtgat acgttctctt cctgtctggg 180
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286

<210> 4967

<211> 287

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560222H1

<400> 4967

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gtcaccaact actttgactc ctttaccata ccattacaat aattatcaaa cctaaccagt 120

aaaaatggtg accgtggagg aaatccgcaa cgctcagcgt tcccatggac ccgccaccat 180

cttggccttc ggcaccgcca cgccgtccaa ctgctctctc caagccgatt accctgacta 240

ctacttccgc attaccaaca gcgnacacat gactgatctc aaagnnc 287

<210> 4968

<211> 286

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560223H1

<400> 4968

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gactaagagg agcgtgggaa cgttgaagga ggggtgattg aaaggaaga ggggtgttcgt 120

gagggtcgat ctgaacgtgc ctttgatga caaccttaac atcaccgatg aactagagt 180

ccgtgctgct gttccacca tcaagtactt aactggtcat ggagccaaag tgatccttct 240

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<210> 4969

<211> 93

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<223> Clone ID: 700560224H1

<400> 4969

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93

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<223> Clone ID: 700560226H1

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tgtcaggaag gttctaagag aagctgctaa tggcggacgg gaagcagaac gcgtcaagct 180
caaattggaa attaaagtcg aagagctttc tgattatgac aaagaagggt ctattttgctg 240
tgttcgtgga aagaacattt tggagaatga atatgtcaag attg 284

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<223> Clone ID: 700560227H1

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 ccttaattct tgtagaattg atgtctgggt tggtagaatc agatttcctc accttcaaca 180
 gcaagggggc aattcaccaa acataaacat gagnagcaat tttgaggctg aaagtcagta 240
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 <213> Glycine max
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<211> 291

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560232H1

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ggatatcaat atgagtccaa agaagaggac ttgcagaaca agagcccttt gtcctcaaa 180
atgaaccggt ttcacaagaa aatcccggtt ctcatccaca atggcaaacc catttgtgaa 240
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<210> 4977

<211> 291

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gaacgacgcc gtcttacgtc ggnttcactg ataccgagcg tctcatcggg gatgcggcta 240
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 ccagcgggtc ccgccggcgg ggcgcaggcg tgaccgccga catcctgtgg ccgaatttga 240
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 gaggttgata gagcttgtaa aagttggggg cgtgatcggg tacgacaaca ccctatggaa 240
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cattccccaa ggatgaccca tccaaggcac ccaagctcac tgcattcttg gggtacaagg 180
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 ttatccaaat ccacggcgtc cctgcgacg ccgtcaccgc cttcgtcgga ttcctctact 240
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 gatattctgg agttttcgtg agaatgctgg cggaggaggg agagacatgg gacgtgtaca 240
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tttncagtca	tcatgggcgc	actaggnctc	ttaatatgcg	gaaagactat	cttggtttgt	240	
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1804

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 tgaagatggc acttggtggg gtanacagnt ggggtggttg tatggatcac tcacagaaga 240
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 aacaaaattg ctgtgggtcaa gtattctctg ttgggttcta ttctttcaaa ccttcttctg 240
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 catccccgac tttcctaagc caggaatttt gtttcaggac ataaccacgc tgcttcttga 240
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caagaaggct tcattgcaat acagagatgt ttgtagcagt ggaagggtag tttccatcag 240
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tcgcaaacga gctctctatg atgatatgtc aaggtagaca tgttgtgctg gctacatgcc 240
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<223> Clone ID: 700560265H1

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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700560273H1

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 <223> Clone ID: 700560274H1

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 gcnaaaaagg tcacatgctc ctttcaggct gatctnaang acttggctca caagtgtgtt 180
 gatgctacca aaattgnagg attcgccctt gccanctctg ncctcgttgt ctctggggca 240
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<210> 5012
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 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700560276H1

 <400> 5012

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 tgcgactggt aactcctct cttgcgtaaa tcccaaccg gcaccatcca cgttcacgtg 180
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<210> 5013
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 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700560278H1

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 gattggcaac aacaatgtgg ttatctgtat gcatcgggtg agatatcatc tattatgcta 180
 tgggatgttg ataaagagca gcttgtcaat tctaaatctt catcatcaga ttgcagtgtc 240

tcagcattgg ctgcatctca agttcatggg ggacaattta c 281

<210> 5014
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 <212> nucleic acid
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 <223> Clone ID: 700560279H1
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 gatngtnagg atgtcctcaa catatgttct gatcctcctt gccactcatc gaatgcagac 180
 tagatgaagt ctagcatcta caaacctcag ccttnatnta ctctcttgtc acacgggaac 240
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700560281H1
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 ctgcggaggc tgcaagatgt acccagactt gagctacact gagtcaacca ccaccgagac 180
 cttggtcatg ggagtggcac ctgttaaggc tcaatttgag ggtgctgaaa tgggtgtgcc 240
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 <213> Glycine max
 <223> Clone ID: 700560282H1
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actcattcct aaaccaagtt atccctgaaa acatcaccga attccaagtg tctctgtccc 180
tcgctagaga ctacgatggc aacaactcaa ccaacggaaa gttcattcct tactgggaca 240
ctgaaaaggt cactcccga gtgataaaaa aattcaagaa aaaat 285

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<213> Glycine max

<223> Clone ID: 700560283H1

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ccggagttgg aagtgcgaagc tgtgccaatc acagatccat ttggcccttc cattacagat 180
gagaacttgg aggctgtgat tgtaagcaaa gagacattac cgggaggatt ggctataaac 240
agaagaagag ctgaaagaga tctttcacag ttgaagattg aagt 284

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<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700560285H1

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taacttgcta attgaggttg ctgctttgta tgatttgaag agtttcagta aggagtgtgt 180
tctaacaaaa natctttagt tgagccaatt ttaagctatg atcaagcaga tattaatatag 240
gtccctcgg aagccct 257

<210> 5019
<211> 282
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700560286H1

<400> 5019

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caacagaaga aactgatcag gtncccttctc ctgaaagttc tgccactgaa gtagtaaaaa 180
cctccattga tgatcctgaa gaagaagcaa aaaaacaaac tccggctaca gagaatgaaa 240
attctttttac ctcacaagtt gaagacaaag aggttgctng gg 282

<210> 5020

<211> 282

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560287H1

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tggatcttgc tacatcacta cttgcaaaag ccaaggaaaa ggggggtgtct ctcttggttac 180
caagtgatgt ggtgattgca gacaaatttg ccccgatgc aaacagcaag gtcgtgccag 240
catctgccat ccctgatggc tggatgggat tggatattgg tc 282

<210> 5021

<211> 283

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<213> Glycine max

<223> Clone ID: 700560288H1

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ggaaaattcg gtcacgtcta tttggccaga gagaagacta gtaatcatat tgttgctttg 180
aaagtactct tcaagagtca attgcaacaa tcccaagttg tgcatcaact tcgacgtgaa 240
gttgaaatac agagtcactc ccgacatccc cacattttgc gcc 283

<210> 5022
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 tcgtgatcca agtgctcgat gattctactg accctaccat caagcaaattg gtggagatgg 180
 aatgcaatag atgggcaagt aagggcataa acatagtgtg ccaaattcaga gaaacaagag 240
 gaggggtacaa agcgggtgct ctaaaagaag gcctaaaacg 280

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 cctcgagatc gagctggccg aggttgagat gcccgccctc atggcctgtc ggaccgagtt 180
 cggccccctc cagcccttca agggggcccg catcaccggc tccctccaca tgaccatcca 240
 gaccgcccgtt ctcatgaga cctcaccctt ttggcgccg 279

<210> 5024
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gagctaaaaa ggtcacatgc tcccttcagg ctgatcttaa ggacttggct cacaagtgtg 180
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 aacttccctt ctctttctaa gtctcttggtc tccaaagcac aatccactat cttnatctgc 180
 ctctttctct ttttcacaac tctctcctt tttactctct ccnnctccc aaannncct 240
 canaccctn nnactnacc tcctaaacnc anccccacc anctg 285

<210> 5027
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700560295H1
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tcatcagggg caaggattgg ggaatagttt tttatctcac atccgtgctg tagatggcat 180
tttccatgtt ttacgtgcat ttgaggatcc ggacattatt cacgttgatg atactgttga 240
cccagtcagg gatttagagg tcattactga agaatgcggc tgaagg 286

<210> 5031
<211> 285
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700560303H1

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cctggaactc gttggatcaa ttttctcatt caaatgatg ttgccttga aatatgtacc 180
gagaagaaaa cgattttgtc agttgaagac atcattgctt tgattggtga taagtgcgat 240
ggagttattg gacagttgac tgaagactgg ggagaagagt tgttc 285

<210> 5032
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<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700560304H1

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aaaggtgacc agggataacc cttctccaag agcatatttc aagtgtctt ttgctccaag 180
ctgcccggtc aaaaagaagg tgcaaagaag tgtggatgat caatctgttc tggttgcaac 240
ttatgaagga gagcacaatc atcctcacc tctcaaatgg agg 283

<210> 5033
 <211> 282
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700560305H1
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 gactctgcta cccttttcaa taagggtcta gaagtaattg aagcacatta cttgtntggn 180
 gcaagctata acaatctcaa tatcgtcata gcttgctcca aacaagtaat gacgatattg 240
 agattgttat tcctcctcaa tctatcatatc attcctgggt ga 282

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 <211> 285
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 <213> Glycine max
 <223> Clone ID: 700560306H1
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 tgaccnttgg actctgaagg agagcccatt aggtcaagcg aaaagcatag tgcataaaag 180
 gggnaaggan gaaagtctgt gcaattaatg canataaaaag ncgcatgagt cccaaggaca 240
 tggaattgat caacgaaagg gtgacatttg gcattgccat cagag 285

<210> 5035
 <211> 288
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700560308H1
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 ttggtatttt ccggccacca ccggcggaac tctccggcgg aaaantccac tttctctcag 120
 acttgtagtc tattgagcca atacatcaag gaaaagggtta ccttcggaga ccttaccctc 180

gggatgactt gncgcccga acaaacgggt cccctgagac atcgtgtcac tctgcaacaa 240
ccatggagtt gtttcccacg atcatcacgc aacggaaccc aactactg 288

<210> 5036
<211> 297
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700560309H1

<400> 5036

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ccgttcctct ggccaccttt ctaataagct aaaagtttca gccctcaaaa gcaacgaaac 180
aaagccaaag cagttctcac tgtgtcaaaa cggatggctc cccgctttcc cccagttctt 240
gttgcttcaa tgtctaattt tatatttggg tatcacattg gagtcatgaa tggtcct 297

<210> 5037
<211> 293
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700560310H1

<400> 5037

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caacagatgt catcgcaaaa ggattactcc atggcaactg cggatgtagt ggatgcggaa 180
gtgaggggaa tggtagagag agctattcta gggcaacaca tattatctca actcacattg 240
atatactcac aagcttgctc aacttctcat aganaaagaa actgtggatg gtg 293

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<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700560311H1

<400> 5038

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 cgccatgttc cgcaaggact gcaccgatct ggttcgccgg atctccctcc tcacccacct 240
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 <213> Glycine max
 <223> Clone ID: 700560315H1
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 ggatttatga ggcccttgaa ttgagagatg gaggatctga ctaccttga aagggtgtat 240
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 <223> Clone ID: 700560316H1
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cta 303

<210> 5044

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<400> 5044

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agtaaatacaa tggatagtct tggctcctatt gaaaatacca gtctaaggga agaccctaaa 180

attttaaccg atatagaaaa aaaaattcac agggatttgg attatttaga aatggaaggt 240

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<211> 134

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560318H1

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ttccgatcga tcca 134

<210> 5046

<211> 282

<212> nucleic acid

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ttgatgttgg tcggtgtggc aaatgctatg gctaactctt ccaacaaatt tgatcaactc 180
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 ttgacaaaatt ttccggggct ggttttactt ccaagagcaa gt 282

<210> 5047
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 tgttcnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180
 nnnnnnnnnn nngtttgaa tcaccacaac aaccaccagc gttaataatg ttcctcctcg 240
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 <213> Glycine max
 <223> Clone ID: 700560321H1
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 agtggaaatt ctgaaaggag ggaggagtcc cccaaatgtg aaatttctgt catgatgtcc 180
 cccatgtata cgcttcactg cctcaactgt attttcagag aaactgaatg agaatcctct 240
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 <223> Clone ID: 700560323H1

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 attcccacat accaattttt ctatagcact tggacacgaa ggagttggta ttatagagag 180
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<210> 5050
 <211> 119
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 <223> Clone ID: 700560324H1

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 <212> nucleic acid
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 cttttctccg tcacgctttt cgtgaccgga tctgtatgga tttgatccag atctacacgc 120
 cgatggtggt tttggccggg tctttcatag atctggtgcy tagaggctca gatctacggt 180
 accgaggtac aacagagaat cgatgacaag aacgcagatc cgacggtaga tccagccgat 240
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<210> 5052
 <211> 282
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700560326H1

<210> 5055
 <211> 289
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700560329H1

<400> 5055

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 ctctcaagga actcctcttc attcagagtt gtggccagtgt gtggcaagaa gatcaagact 180
 gacaagccta tggaattaat ggtggcatgg cttgagggaa ggagttgatg catctggcag 240
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<210> 5056
 <211> 301
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700560331H1

<400> 5056

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 agttcaaccc agtccaacca aacattatgc tccaaaaaga tgctagtatt tcctcctctg 180
 ggggtgttaca actcaccaaa gttggcagca acggcgtgcc cacctcgga tctctcgtc 240
 gtgcccttta cgctgcccc atccagattt gggacagcga aaccggcaag gtagccagct 300
 g 301

<210> 5057
 <211> 304
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700560332H1

<400> 5057

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aatgaaagaa atatgtattc tgctgttctt gtgatgccag aaacatttga caatcgtgaa 180
ataaaaagaaa ttctatcttt agtactacga gaactctgct ttggtcagc agtggtacac 240
caggaaggtc tgcagcagtt tttggaaatg gattatcaac agcatgtgtt gtgaatattg 300
gtgc 304

<210> 5058
<211> 285
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700560333H1

<400> 5058

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ggccttgtgc aattgaagaa gagtggatgg agattcagtt agagcagcag caggagtcac 120
ggtcggagac gtcgagcacg gggagcagga gcacgcgagt nggcttcanc gggcccatga 180
gcggcccgcct ggtgacgccc aacaacaaga agagcagcaa gaaaagcacg aggttcaagg 240
accaagagga ggaggacttc gtggagataa cgctggactg cgcga 285

<210> 5059
<211> 283
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700560334H1

<400> 5059

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gcccccatca tcacccaac tgtgagagag gatatggcaa aggaatacga gaaagctatt 120
gaagaacttc agaaattgtt gagggagaag agtgaactca aagcgacagc tgctgaaaaa 180
gtggagcaga taacagcttc tctagggaca tcatcatctg atggcatccc atcatcagaa 240
gcctcagaca ggatcaaagc tggtttcatt cacttcaaga agg 283

<210> 5060
<211> 278
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700560335H1

<400> 5060

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 ctcgaggggtc tctgcttgaa ggtctgact cactatccca ctcttttcga ccattttcag 180
 agggngcttc gccaaagtct ccgagactcc ttcattcagg actggcgagg caccaagtct 240
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<210> 5061

<211> 281

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560336H1

<400> 5061

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 atagccggtt gaagcgcaag ggcgctgggt ctggaaggaa gcaatcgaag aaagctgcta 180
 aggatcctaa caagccaaag agacctcaa gcgctttctt cgttttcatg tccgagttca 240
 gagagcagtt taagaaggag catcctaaca acaaaccgt c 281

<210> 5062

<211> 282

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560337H1

<400> 5062

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 caagcacgcc cgttctcgcc atggtgggct tcttgggctt tgcagtccaa gctgccgcca 180
 ctggcaaggg ccgctcaac aactgggcca ccacttgag tgaccactc cacacaacca 240
 tcatgnccac cttctcatcc tctcttaag aagaagcaaa ag 282

<210> 5063
 <211> 71
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700560339H1

<400> 5063

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 aatttgactg t 71

<210> 5064
 <211> 284
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700560340H1

<400> 5064

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 cagtcaatgt ggactcttac ctgtttctgg ggttatctcc aacctnaagt ctgagggaca 120
 tggtaatggt ttcacttctt tgttctatgc acaatctggt attcacccta tgtcgagtcc 180
 aaaacctgtc tgccagaatg agagttctcc ctttcccaca agtacctcca cccagtccta 240
 tcctganagc cacaatcaga tcaactacat gactgctcca atga 284

<210> 5065
 <211> 263
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700560341H1

<400> 5065

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 ttgcangagc ccatagnag tanngnanaa ganttttctt ncttgntatc tnanngtaat 120
 cnggancggn attnaaan gttnccttt tatcagaaat gcaagctcca tctcatcacc 180
 atcaatttca atacgacaag caataatgcc tntgactacn taatagttnng aggangcaca 240
 gcaggtgtct ttngctgaaa cct 263

<210> 5066
 <211> 284
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700560342H1

 <400> 5066

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 cttoctcagt tgtgcctatg cacaagacac aacaaccctt gtgcctgcaa tcataacttt 120
 tgggtgactca gccgtggatg tagggaataa tgactatctt cccacccttt tcaaggctga 180
 ttaccctcct tatgggaggg actttgctaa ccaccaacct actgggaggt tttgcaatgg 240
 caaattagct actgatttta ctgctgacac tttgggtttt aaga 284

<210> 5067
 <211> 287
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700560343H1

 <400> 5067

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 agaaaaattc aaaggtgttt ttccaaaaan tattcccata gttaagccaa ttccaaagcc 120
 aattcccatg gttaagccta tccctattcn natatataag cctataccaa aatcagttcc 180
 cattgtgaaa ccaattccta ttattaaacc aatactaaag ccaaattcca ttgttaagcc 240
 aattccaaag ctgattccca ttgttaagcc tatnccaaac ccattaa 287

<210> 5068
 <211> 288
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700560344H1

 <400> 5068

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 tataccggcg gcgctgagtg gtgatcaagg aaatgggtca gaggctaagc tgcgtgcaac 120

agcagcacga ggagcatggt gtgctcttcc cagcacttgc aagtggagaa ttggagggtg 180
 ttgaggccat ggtggaggaa gacccactg tgttgaaca caccactggc tgtgaccgcc 240
 tttctcctct gcatgtagct gctgccaatg gtcggatcga ggttcttt 288

<210> 5069
 <211> 284
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700560345H1
 <400> 5069

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 cgtgtcgccg ccgggcgaaa aagtgtttcc ctgagaagag aattttgcaa atatgggtcc 120
 accaaggggt ttgagnacat acgaatggtt ctttcggcgt ggaagtgggt ggttctcgca 180
 ancatcactn cgcttggtca ggagagacgc gttccagttg aaaaagcagg aagtgagatt 240
 tgtgntgaac acgagctgnc cctgtggtgc cacgccagag aaga 284

<210> 5070
 <211> 178
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700560346H1
 <400> 5070

ttaaccccaa aagcgccatg caagataggg ttaaagacta caatggggag aagaatcgta 60
 atcttacctg agcagtttaa aattttggga gacgataact tttgtcttta taccatgtgt 120
 ttctctgcta tttgatggtg tacgatttgc ttataaataa gaaatgaacg caacaatc 178

<210> 5071
 <211> 293
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700560347H1
 <400> 5071

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agcaaaattg ctgcagaacg tcaaaaaact gntgattctg caattgcaaa catcacttgc 120
 agcaattcag tgaatatata tggttggtatt ggtgttccat ggcttattga tactttgtac 180
 aacttcatag catatagaga acctctccga atccaaaatg cagggggact aagctttcgt 240
 tgattgtttt ctctccactt ctgtcgggtg tatctcagtt ttggttttaa ggc 293

<210> 5072
 <211> 298
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700560348H1
 <400> 5072

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 tatggggacg cgtctcctgg aggtcactc cggagcgggg cgagtgcacg cccgattcgg 120
 cttcggcaag aaaaaggctc ccgccccaaa gaaagcctcc aggggatcgg gccgagacac 180
 cgacagaccc ctttggtatc cgggcgcca agcgcccgaa tacctcgatg ggagtcttgt 240
 cggagatacg gggtcgatcc gtttgggcta gggaagcccg cggagtacct gcattcga 298

<210> 5073
 <211> 279
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700560349H1
 <400> 5073

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 tccancttca ctgcaatgtc ccgcctgcaa gctctcctcc tccgccgcca tctcctcctt 120
 cccctcncgc cgcngctcca acgccgtcgt tctgtcgagg cgcaggngcn gccagggtct 180
 ccgccatggc naaggagttg cattcaacaa agacggcanc gcaattaaga agctncagag 240
 cgggtgtgaaa agctcgcgga ttcgttgngg tcacgcntg 279

<210> 5074
 <211> 277
 <212> nucleic acid
 <213> Glycine max

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gatgatgatt	attcattttg	aggggtgggt	ggtgaaggct	tcttgtagtt	gacacatgaa	120
aggaaacaca	aaccagggaa	aggaaatttc	agtggccggg	atogatcata	aggaggaaga	180
aatacnnggt	tttgggacct	cttcncttnn	ccttataaaa	agtccaaaac	aggagcctct	240
tggtgtttta	gaaaggagga	ggttggggga	naagggt			277

<213> Glycine max

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gncaaaanaa aagacacttc actccaattc cnnacctggt gctganngnc ccaaaanact      60
tacaacattc tatgtttctg ttcagaggaa gaaggaaaaa ccaaaaaagt tagtcgtggt    120
tttgntgatt tgnancngnt ncanttcaan tnattccana                               160
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<213> Glycine max

anccctcact	ctcgagtcca	aactccctc	ctacccaaaa	tggatgcaag	ggcatcatct	60
tcttcagctt	cntcgattct	tttccttgca	gcaattgtag	ctgcttattt	ctattcatca	120
gaagcagctg	tgtccaaagg	atcttttgag	gacaatttca	gcataatgtg	gtctgaggac	180
cattttacta	cctctaaaga	tggacagatc	tggtatctct	cactagacaa	agacacagga	240
tgtggattca	aacaaaacaa	cgctacagat	ttgggtggtt	c		281

<211> 284

<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700560357H1

<400> 5077

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ctcttcatct ttctttcttct cgtntttact ttgacggttt ctagagagag aaagtttgtt 120
atagagagag aaagcgcnnn nnnnnnnnnn nnnnnnnnnn nnngacagtg agaagagaga 180
gagaagcgct cttctccgta ccgtttctag agagaganac tgatggccgg agttaatccg 240
aacggcgctc cngattttcc ggcgactcca acgcaggcgg acag 284

<210> 5078
<211> 287
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700560359H1

<400> 5078

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antgtnttta acaaccccc atggaccccc tcaatgtgtc ttaaaggaag tcccctctga 120
tctaccaggt tactcaaaca gtattttgaa ctctcaatac ctgaaggcgg cacaagattt 180
gcttgatgaa atagttagt tccgaaaggc tttgaagcaa tctgggaatg ggnaaaacaa 240
gagaacactg gattagatgg ctctaaagat tctgatggaa natctac 287

<210> 5079
<211> 287
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700560361H1

<400> 5079

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gtttccagct gtggggaagg gattcacatg ggcactttca ctgatgaata tttgtttatt 120
gaaattgcta ataaggccct gttctggcag cagcaaaact attatggtgt tgatttaaca 180
ccctacatg ggactgcatt tcaaggatac tttctcagcc tgtggtggat gctttgatcc 240

aagatgttaa tagctccttc aatgttccag tgatagactc accaaaa 287

<210> 5080
<211> 291
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700560362H1

<400> 5080

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gtaaacggct gttttgtata cgagctgtcc cggctctcagc ctctacatcc caaaacatca 120
aaacaactgg ttgggctcct tgtatggctt cttcctcagt tggtagaaga gctacatatt 180
caacacaatc tgtatcgaca aatgagccag ttgtatctgt agattggctt atgataacct 240
gaaggagcca gatatcaagg tactagatgc ttcgtggtac atgccggatg a 291

<210> 5081
<211> 291
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700560363H1

<400> 5081

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gagtgggtga agggacaaac cttcgccaa cttctgcatc agttgtgaga tgcaacccca 120
ccaccccatc aggcctcacc atcagagctg gttcctatgc tgatgagctc gttaagaccg 180
cgaaaacagt ggcttcacca gggaggggta ttttggccat ggatgagtcc aatgctacct 240
gtgggaagcg tttggctcaa tgggctagag aacatgaagc taacgccagc a 291

<210> 5082
<211> 281
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700560365H1

<400> 5082

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ctgcgttaac cctaatacatc aactcaagca gtgaatgaat ctgtggacgg acgagaactc 120
ctcggatgatg gnggccttca tgcgtcctc cgatctctcc tcaatctggc cctcgccggc 180
gccgncgcaa tccacggcgg tcttcaatca ggacaccctc cagcatcgcc tgcaggcctt 240
gatcgaaggn ncnnganaga ctngaantat gccatcttct g 281

<210> 5083
<211> 268
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700560366H1
<400> 5083

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gaggttgaaa gaaacacaag cacacttatg actctgatga gtcaactggg gtgttncaaa 180
aggctgaaaag tgaanntanc gggcacgct acgttggtga tgagaacacg aaatctcctc 240
tccacaatgc aacgtcaaga tgtctaga 268

<210> 5084
<211> 273
<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700560369H1
<400> 5084

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aacctccaac agngccatgg cttctcatga ctgctgcgga gttcttctct cgctgctctg 180
gttcttcaac caagccttcc ggtggcgacc ggtgtcgcg aggtcatgac tgagaagcta 240
ccgagtgagg agaagctgcg gggctgacat ctt 273

<210> 5085
<211> 277
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700560370H1

<400> 5085

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gaatanngna aaattgtaca aatcctagct gatgtggcag ctgcagcaag atttgtacaa 120
ttttgcctta ttctatgggc attagcaatg ttggcncaag aattatctat aacaataata 180
ttgagagtta gattttgctt ggatttggtc ttattttatt gggggatggg gagaagggtt 240
gtgtactagn cncgcncata ggtacaaaac catcatc 277

<210> 5086

<211> 278

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560371H1

<400> 5086

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cgtgcccttt gtccgtttcc tcttcatcct cccgttttct cagatgctcc gtaaattctg 120
ccccgaagcg aagaagaagc agcttcatta ctgcttcgtg gcaagagctc gcgggagttt 180
tactattctc cgcgattcct tctactgccgt gaaagctata gctaatagtc cgctagggag 240
tcgcttcaga ggctanngag gagagaaaga ctttgctg 278

<210> 5087

<211> 283

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560373H1

<400> 5087

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agctttggaa aggtgcgggc ttatttgatg atggtgcaaa gcgggttgat gaagctacac 180
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gagtnatnga atncctagat accncactga aagggcagan acc 283

<210> 5088
 <211> 279
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700560375H1

<400> 5088

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 tcaagttttc anctacctgg attttgcatg ccccgatgc ttgangatga tggggggagt 180
 gattctgatg aaggggagtt tgangctgtc acacctgaac atgatctgaa acatntgaat 240
 gcaaganaca atcatgcaat tganaaacn ngcatgtgt 279

<210> 5089
 <211> 283
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700560376H1

<400> 5089

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 gcaccatcca tgtggactct tggaaatgca gggatggggg cattacagag actggcagaa 180
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 tgggaaatag aggaaggcga tactggaggt tcatgatgga tga 283

<210> 5090
 <211> 287
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700560377H1

<400> 5090

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gctcttttcc ctctgattta attcatgcmc agatccaaac cctaattccat ctctccgagg 180
 gtttgatggc tgaccaagga ttggaaggga gccagccggt ggatctacag aagcatcctt 240
 ctgggatcgt gcctaccctt caaaatattg tgtccacagt caattgg 287

<210> 5091
 <211> 286
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700560378H1
 <400> 5091

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 caatcaagga tggaaattct caagattcat gctgctggga ttgctaagca cggtgaaata 120
 gattatgaag ctgttgatga gcttgccgag ggctttaatg gagctgatct tcgaaatgtg 180
 tgcacggaag ctggaatggc agcaattcgt gcagaacgtg attatgtgat ccatgaagat 240
 ttatgaaggc tgtagaaaaa ctgatgatgc aaagaaactc gaatcc 286

<210> 5092
 <211> 291
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700560379H1
 <400> 5092

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 gcataaggaa actgaggatg actatgctta cctctctaac ttacttcaag actttaccat 180
 tattccaac attgacaagg catggctttt agctcaccgg gctcgagtt gcaggggaatg 240
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<210> 5093
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 <212> nucleic acid
 <213> Glycine max
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 aacctcacca ttaccgatta tttccagacc taccagttcg agaactctgtt ctccaagcgg 240
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 <223> Clone ID: 700560382H1

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 tcttgatggt catgcatgca ttgcaaaaga tcctcagcac tttcggcaac ttgttgcttt 180
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 <223> Clone ID: 700560383H1

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 tagggttgag aacgctttcc ttgatttcct caaaagcttc aagtccagta gccatcggaa 180
 cgaactttat tacgaagcgg agatcgaatt gatgaagagc aatgactcca acaccatggt 240
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 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700560384H1

 <400> 5096

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 <223> Clone ID: 700560385H1

 <400> 5097

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 ttaggaggta gtaaggagca gggaactgca gcaggtggtg gtggttatcc gaacgcgtgg 180
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<210> 5098
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 <213> Glycine max

 <223> Clone ID: 700560386H1

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ctttngcgtc ccacatctcc atccagctca ttagtgccac canggetgat ggactgggaa 240
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<223> Clone ID: 700560388H1

<400> 5099

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tcgtggatcc tgagattgct gatataattga gctgagaaaag ctaggcaatg gaagggctag 240
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<210> 5100
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<213> Glycine max

<223> Clone ID: 700560389H1

<400> 5100

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<210> 5101
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<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700560390H1

<400> 5101

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acgtgtcctc gtaggcacgg tgcccacgtt aagctccc 278

<210> 5102
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<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700560391H1

<400> 5102

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gaggtaatca acnctantgg aatgactact tcttggatct ctgggtgaaga ccnngggaca 180
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<210> 5103
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<213> Glycine max

<223> Clone ID: 700560392H1

<400> 5103

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tatttggtgt caataaagat gttgctgtct tattatgatt catgggtggaa atacctatct 180
gatgtttgat ttttggggta tctttttgtt tcatttcagt ttagtgcaac tgtttttgga 240
gttcaacaga atccagcagt tatcgatatga c 271

<210> 5104
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<212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700560395H1
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 agaatccaca aaccagacga ggnactactt tgttccttg gcttcttggt tttgcctctg 180
 aatcattct ctcttcatt ggatctgggc aagggttccg ctggcaccga tttcaagaat 240
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<210> 5105
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 ctaaaattcc ttgccaaagt aatgagtttg tcgccgagct gtttcgcggt gtgcgcctcc 180
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tcatca 306

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<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700560402H1

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gagaccccag agaggattgc ctgaaagatc cgtttctgtt cttegtgctt ggctcttcga 180
acacttcctc catccttatc ctaaggattc ggacaagcac atgctagcaa aacaaacagg 240
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<210> 5108
<211> 130
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700560403H1

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nnggcnngtc 130

<210> 5109
<211> 254
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700560404H1

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tggagaaaca ttaacagatt tagcacggct gcagcagttg aggaactaat cactccacaa 120

354227-62660

gtttcaatac gttacacaca gaacctgata aatgggcaat ttgtggatgc tgcacaggg 180
aaaacatttc caacatatga tccgcgctca ggagaagtga ttgctaattg tgctgaaggg 240
gatgttgaag atat 254

<210> 5110
<211> 295
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700560406H1

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ctacctccat gcaaatttgg agagaagaag tatttggacc agttctctgt gtaaaaacat 180
ttagcactga ggaagaagct attgatctag caaatgacac tgtataggct gggttctgct 240
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<210> 5111
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<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700560407H1

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ggaagctggt ctggagggtt tctacggcca gtcaaagcct cagtctaacc caaacttcaa 240
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<210> 5112
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<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700560409H1

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tccaccaagt ctacctctct cccaagcagg acctccatca ttacccaga gagagttgta 180

ttcaagaagg cttcattgca atacagagat gttttagca gtggaagggt agtttccatc 240

agagctcaag tcaccactga ggctccagcc aagggtgaaa aagagtccaa gaaacaggat 300

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<210> 5113

<211> 299

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560410H1

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catgaccata attaataggg agcttggttg gaatcctaaa acctcacttt gggacctgct 180

tgaatcaact ctcacctatc agcacaggac ttatgctgaa gccgttaaga aagtcattgc 240

aaagcccgtg gcaagttaaa cttgtatggg attgaattgc attgagaaga gtgtttctg 299

<210> 5114

<211> 301

<212> nucleic acid

<213> Glycine max

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tgtggccggt cttgggcagc agtnagggtg tctactggaat ttttcacttc gttcaggagg 120

gaagtgggtc aaccaccgta actggatctc ttgctggtct taagcctggg ctccatgggt 180

tccatgtcca tgccttgggg gacactacca atggttgctc ctcaactgga tcacatttca 240

atcctaataa caaggagcat ggtgccctg aggatgagaa tcgncatgct ggtgatcttg 300

301

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tt						302

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<213>      Glycine max

<223>      Clone ID: 700560418H1
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 cctggggcgg ttgcgagctc gggaagctcc tcgggcacgg aaccttcgag aagggtccanc 180
 acgcgcgcaa natcanaacc ggagaaggag tcgccatcaa gntcntgcaa caaggngaaa 240
 atcctaaagg ggggtttngt ctccacata aagcgcgaga tctccttctn cg 292

<210> 5118
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700560419H1

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 ctagagtccc tgcaagctca acacatcaga gataatcaaa atgcatcctg cgcagatcgt 240
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 <223> Clone ID: 700560420H1

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<210> 5120
 <211> 297
 <212> nucleic acid
 <213> Glycine max

 <223> Clone ID: 700560421H1

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 gacaagacac ccggtgtacc gaggagtacg aaggaggaac aacaacaagt gggctctgcga 240
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 <223> Clone ID: 700560424H1

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 gaagctgcct atgtttggct gcaactgatgc ttctcaggtg ttgaaggagc ttcaagaggc 180
 taagactgca naccccaatg gcttcatocg tatcattgga tttgacaacg ttcgccaagt 240
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 <223> Clone ID: 700560425H1

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cctgtgggaa gcgtttggct tcaattgggc tagagaacac tgaagctaac cgccaggcat 240
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<223> Clone ID: 700560431H1

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<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700560434H1

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 <213> Glycine max

 <223> Clone ID: 700560437H1

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<210> 5127
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 <212> nucleic acid
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 <223> Clone ID: 700560438H1

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<212> nucleic acid
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<223> Clone ID: 700560439H1

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<223> Clone ID: 700560442H1

<400> 5129

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<210> 5130
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<213> Glycine max

<223> Clone ID: 700560443H1

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<210> 5131
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700560447H1
 <400> 5131

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 tagccaaagg gttcacaacc caaatgtgat gctaccacaa catgaccaga ggtcacctca 120
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700560450H1
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 cattgttctc caaggtcaca tccttgctgg attcatatct tcaggtaaca tagtttatca 180
 gaagggtgcta aaaaaggag agctcatggt tttcccacaa ggggtgttgc acttccaaat 240
 tgctgttggt aagagaaagg ccctgctttt cctgtcttca gcagtgcttt t 291

<210> 5133
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700560452H1
 <400> 5133

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cccgccgatac tcttgtcgaa ttcgagttct tcatcgactt cttcggagga aacaccgacg 180
acggaggcca gagggcgcaa gaggaagagg aagtggaagg acttctttga gaggtcatg 240
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<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700560453H1

<400> 5134

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gtaggagttg gtaaggggaa agaagatcta caggactcgc tatagattct atgaaatcca 180
cacaagtact tctncgtcg ccaagaaata cctgttggca aagcatgttc atgcttantn 240
cttctgaaat aataagcttt ctaacagggtg atttcagatt aagtaaagct 290

<210> 5135
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<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700560454H1

<400> 5135

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ttgggaagct gtttggccaa aactcccat tcccactgca ctgcgagagc ttctaaagcc 180
tctccctgca ggtgttgaaa tcgatgaact ccctaagcaa attgatgata cacagtaccc 240
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<210> 5136
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<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700560455H1

<400> 5136

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<210> 5137

<211> 290

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560457H1

<400> 5137

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agcaacggga agatggctcc gaaggnagca acaactattc tcctgaagat agatgtctaa 180
gtcagacaca agtagtgagg aaaactcacc tgttattnct tgcccagcta gtcctcctaa 240
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<210> 5138

<211> 291

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560459H1

<400> 5138

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gcaaatgcct aaacagcaga gcctgtttgt tactggccct ccaatcacac tttctgttgt 180
aagcagaatt aggaacggag ctaatggctg gagaggcact gtaancggtg ctgctgcagc 240
tgcaactggt aggaaaaatg cttttctggg gccatgcttc atctttccgt a 291

<210> 5139

<211> 290

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560462H1
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 agctccttgt gttagtttgg atttaactct acccctacgt tcgtcctgan aattatcata 180
 ttctgcgtgt tattagttgt tgtattcacg gataaagttg gaataccaga tgagttatac 240
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<210> 5140
 <211> 294
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700560465H1
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 tggtcggcaa acggacggcg ggcgcacgcg tcgcttctag cccggattct gacttagagg 180
 cgttcagttc ataatccaac gcacggtagc ttgcgcccac tggcttttca accaagcgcg 240
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<210> 5141
 <211> 284
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700560467H1
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 aacgagaagg atttggccgg tttggattgg aaatcgatcg agaagagctt caggtttgag 120
 ggtaagagca atggattgct tttaggggat cagagtttga gctttaggaa gtatgagatt 180
 aggtattcag agtgcctgat ttgctcgttc gcgatctcgc ggtcgataat tcgtatacgt 240
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<210> 5142
 <211> 291
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700560468H1
 <400> 5142

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 cggacgagga ttgcgtgtac acggtgtacg ttcggacggg ttcgatcatc aagggaggca 120
 ccgattcagt aattggtctg aagctatacg acaagtccgg ctacggcata tacatcacca 180
 acctcgaggc atggggcggg ttaatggatc cgggtcacia ctactacgag cggggcaacc 240
 tcgacatatt cagtggtaga ggccctgctt ggaagcaccg gtttgcgagg c 291

<210> 5143
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700560469H1
 <400> 5143

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 caagcatcca naagcaccat catttgaagc catccaacgt gtgctttcaa ggncttagac 180
 ccctcacaag gttcacaacc aaagtgaagc gcaccaccaa aagggttatt ccaaagggtg 240
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<210> 5144
 <211> 290
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700560472H1
 <400> 5144

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tgcattggtgt ggctccatag taaagttcct tcctggatta gagggacccc ttccntntgt 180
tcttgnccacc gggatatgtgg gagggtgtga atcagaggat gtgcaggcnt tctactactt 240
cattgagtca gagaacaatc caaaggagga tccttcatg ctttgggtca 290

<210> 5145
<211> 286
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700560483H1

<400> 5145

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cttgtaggat tgagagagac aagaaacaca acggtcacag gtgtggaaat gttccagaag 180
attctagacg aagccctncg ccggggacaa cgtggggctg ttgctgagag gggttcaaaa 240
gacggacatc cagagagggga tgggtgttggc gaactgggca cgatta 286

<210> 5146
<211> 282
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700560484H1

<400> 5146

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aggaaaaagg tgaatgagat gttggataaa ttgcctggga aaatcagtct agtgcctgatg 180
tgtggaatgc tgtggacgat gcagagtatt atgtttgaca tcaaattaca ttgatganc 240
tggcagttaa gaaggaggat attaaatttt ataaggatga tc 282

<210> 5147
<211> 282
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700560488H1

<400> 5147
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 atgttatgtt gantttccct ctctgaatt tctctagag aaccaacgta gatgagtnct 180
 cttccccaag aagcctctan tgccacagat agcaagagat ttgtgancct cactctagt 240
 ctgctgtcta agctacntgc tgctatgtag tccagatat tg 282

<210> 5148
 <211> 334
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700560501H1

<400> 5148
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 atctcaacc catcaaagac gcaactcagt tttttccacc aaaagcaggt agttttctgg 180
 aggaacagca agaagggcag ctgcagcagc agaagaagct atgtgataac atgtgcagca 240
 ggtgactcac agacagtggg gattggcctg gctgcagact caggggtgtgg gaagagcacc 300
 ttcatgagga ggctgaccag tgtgtttgga ggag 334

<210> 5149
 <211> 327
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700560502H1

<400> 5149
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 ctgaagataa gcttgtcaag atcactgagc tggcacgatt gcaagaggac cttcggcgca 180
 tgaatgcaga gaacccaaaag ctgaaggaga tgctcagcca tgtcagcagt aactacgcga 240
 acttgcaaat gcatcttgca gcagtactgc aacagcaaca taaccaacgc actgagaaca 300

cggaacaagg gttgttcaag gaaaagc

327

<210> 5150

<211> 325

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560503H1

<400> 5150

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aagggtacca gggataaccc ttctccaaga gcatatttca agtgctcttt tgctccaagc 180
tgcccgggtca aaaagaaggt gcaaagaagt gtggatgata aatctgttct gggtgcaact 240
tatgaaggag agcacaatca tcctcaccct tctcaaattg aggtaacaac aggctccaac 300
cgttgtagac tcttggttca gtacc 325

<210> 5151

<211> 320

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560505H1

<400> 5151

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ttcttaactc tgtttctgct ctgcctccaa acaaaagcag aggattttgg tgcaacaggg 120
aagctcgag gaacatgcaa cttgttcagt ggaaaatggg tctatgatgc ttcataacct 180
ctctatgacc cttcaacttg ccccttcgta gatccacagt tcaattgcca aaagcatggg 240
cgctcagata aactgtacca aaaatatagg tggatgccat tttcttgtcc cttgccaagt 300
tcaaggatga actttttgga 320

<210> 5152

<211> 320

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560506H1

<400> 5152

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tgaagcaggc tacaactcca aactatagag cataccaaga gcagggttctc cgtaattgct 180
caaaatttgc acaggcactg agtgagaagg gctatgagct tgtttctggt ggaatgagaa 240
tcacttactt ttggtgaatc tgaagagcaa gggatatgatg gctccagagt tcagaagggtg 300
ttgaatcagt tcacattgcc 320

<210> 5153

<211> 280

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560507H1

<400> 5153

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agcgtctggt gccaggattg accattagca acttgtattg tttcgtgtaa gttttcttgt 180
cggcgattat atgaacttgg agatgtgaca tactctggct catcccttta gagaataatg 240
cagccctgca gagtgttaata ataaactgtt acttgggatgc 280

<210> 5154

<211> 320

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560508H1

<400> 5154

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gcttcatatt tcaactgtgat ttcataatag attttcactc atcttacttg actccaagca 180
ttctatatat ctnttgcttc cacgcatctc taccctcaaa tcttcaccac acaacactac 240
ctcnattact caactaaagc ttcattcatt catcgtgtcg tgttgtgttc tttgcaacca 300

tggtcttaga acagcgtcct

320

<210> 5155

<211> 313

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560511H1

<400> 5155

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cattgatagt actgaaatag ttaggagggc atggaagaga tacaatttga gcttaggtct 120

ggactgaaca aagttgctgg gaaggttttc agaattggac atcttggcca cttgaatgag 180

ttgcaactgt tgggatgtct agctggtgta gagatgatac tcaaagatgt gggttatcct 240

gtaaagcttg gaagtggagt tgctgctgcc agtgcatact tacagaacac tattccatga 300

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<210> 5156

<211> 315

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560512H1

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gacggggttg ggatcctgag tataataggt tgttcaatga gggcatggtg tgcactgcta 120

gggttggtgc caaggctgtg atcactggct acaaagatgg gttcaaccag attaagtcct 180

ggttgatggt ggaggtggca ttggagggtc tctttcggag attggttaggg cttatcctca 240

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atcacccatg ttgga 315

<210> 5157

<211> 322

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560513H1

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 cagctgttta ccaacgtcaa accgtggncg gtggccggca tggttgctcc attcacgggc 120
 ctcaaatcca tgggctggct tccccacgag gaagaccaac aatgacatta cctccattgc 180
 tagcaacggt ggaagagtac aatgcatgca ggtgtggcca ccaattggca agaagaagtt 240
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<210> 5158
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 <213> Glycine max
 <223> Clone ID: 700560514H1

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 tgtttcattg agctgcaaag tgcctctttt ctacggaaag aacggttctg gaagtggtnn 180
 nnnnnnnnnn nnnnnnnnnn nnnngatttc aggagcactt gctcttctctg ccgcagctta 240
 catgttccaa gatcaggagg tgcgcgcant gagctggagc gcactttcat gccataagct 300
 gaggagtgca gagaaggtg 319

<210> 5159
 <211> 326
 <212> nucleic acid
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 <223> Clone ID: 700560517H1

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 agcggcgagt actttacgcg cctgggcgtg ggaactctc cgaagtacct ctacatggtc 180
 ctgcacaccg gaancgacgt cgtttggctc caatgcaagc cctgcaccaa atgctactcc 240

caaaccgacc aaatcttoga cccatcaaaa tccaaatcct tcgcccgaat cccctgetac 300
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<210> 5160
 <211> 132
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700560518H1

<400> 5160

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 ttccgcgtaa at 132

<210> 5161
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 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700560519H1

<400> 5161

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 aggtggctgt gtaacttgca tggcctcgta caaggtgaag ctcataaccc cagaaggaga 180
 agtggagttt gaatgccag atgatgtttt cattgttgac aaggctgagg aagaaggcat 240
 tgaacttccc tactcgtgca gggctgggtc ttgcgtttca tgtgttggga aaattgtgaa 300
 agtgacgtgg accatcaga 319

<210> 5162
 <211> 320
 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700560520H1

<400> 5162

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gatcggttcgg aaagacctcg tacccaatgg acctggcagc gttaagatgg ttgcagtggg 120
 ttcgatgat ctctgggtttg cgtatnacct gatagctccc ggagactctg tcatggccgt 180
 nactgtcagg aaggttctaa ganaagctgc tantggcgga cgggaagcag aacgcgtcaa 240
 gctcaaattg gaaattaaag tccaagagct tgctgattat gacaaagaag gttctattnt 300
 actgttcgcg gnaagaacat 320

<210> 5163
 <211> 318
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700560521H1
 <400> 5163

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 cttaccatca tcagagatgg gttgaagacc gatcccacca ggtaccgcaa gatgaaggag 180
 cgtctcgttg gggtttctga ggaaaccacc actggagtta agaggctcta tcagatgcag 240
 gcgaatggga ctcttctctt ccctgctatt aatgtcaatg actctgtcac caagagcgag 300
 ttgacaattg tatgggtg 318

<210> 5164
 <211> 320
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700560522H1
 <400> 5164

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 ttctccggca ccggcgccgg aggcctaatt ccactcttcg gtgctccgcc tctcgtttct 180
 cggagaagca ccacacgaac tctcgaact ccgacgacgt ggtggagctc cccctgttcc 240
 ctctccctct ggtctcttcc cctggcgcca tctccctt gcagatcttc gagttccgct 300
 acgcatcatg atgcacacgt 320

<210> 5165
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700560523H1

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 gtcggaggaa gcacgcattg acgcagttag acgattagaa ctgtcataaa gattcaacag 180
 ttgatgaatt atttttagtaa attcaactta aaaaacacat ttaaaatact aactgtctga 240
 tcaaattaga cagtccacat tcacgattgt gtgaatgcgt gagtgcaggt ggagtgaata 300
 aaatggagga gagac 315

<210> 5166
 <211> 319
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700560524H1

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 gcagggnttg aattggccat tcagtcctct ggcatagcaa accaggaacc agctattaca 120
 tccgccaagg natgtctgaa gncaacaagg agaatgggtc cttcaccaac cctgantgct 180
 gcaagcctgg cantnagctt atccaagggtg gtaccttata gagcgcaant agaatggtac 240
 aagacttggt gcgatgagca agacgaccan atgggttatt acgactcttc anaagcaggg 300
 ctcttccagn tccngnagg 319

<210> 5167
 <211> 314
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700560526H1

<400> 5167

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caaaagtggg tgatttggtg gagaaattgg tgggaagtt cttgtatgat tcttcactgc 180
cccatcacta cctcactggg aattttgctc ccgtagtga gacctctcca accaaggacc 240
ttcctgtcaa aggggtacctt cgggattgct tgaatgggga gttgtcaga gttgggctaa 300
tccgaagttt gctc 314

<210> 5168
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<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700560527H1
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tgagtctgag atccatcagg taattcttga gaatcagctc ttcagccctg gtgaangcgt 180
cgcaatcggc gcttctggcg gaaaggattc caccgtcctt gcctacgtcc tctccaagct 240
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ggctaccgag ac 312

<210> 5169
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<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700560528H1
<400> 5169

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ttcaggtgga gctagcgggtg gtattaagga tgtaagtaaa cttgaagggtg gtgcatcatg 180
ctcatcagaa gtcctacaag cattgcccgt tttgaagaaa tcatatggag acagtttgca 240
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311

<210> 5170

<211> 314

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560529H1

<400> 5170

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tcagctccca gttcagcctt ctttgggacc agcttgaaga aggttattgc ctcaagggtc 180

cccaacagca aggtttccgg tggaagcttc aagattgttg ctgtagaaga gaagaaagag 240

attgaagaga ccagcagac cgacaaggac agatggaagg gtcttgcta tgatatccag 300

acgaccaaca agac 314

<210> 5171

<211> 316

<212> nucleic acid

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<223> Clone ID: 700560530H1

<400> 5171

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tgttgatcaa ggtaagactt atagattcag gatatcaa atgtggggctca caacatcaat 120

caacttcaga atccaggggc acagtttgaa acttgtggag gtagaaggat ctcataccct 180

ccaaaacacc tattcttccc ttgatgtcca tctcggacag tcctattccg tgctgggtcac 240

agctgatcaa cctgtcaagg attactatat ggttgtctct acaagattta ccagacggta 300

cttacaacaa cttccg 316

<210> 5172

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<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560531H1

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acccttattc taggttccgc accccgcaaa ggancgccga cctgccatgt gctcgtcgca 180

ttccccgaac caccgttcga natgcagagc tccagcacct gccaatgcca tcattcttcn 240

ccttgtaaca tcctctgttc cctctccttc attaacgtca atcccagatc tagaagcagc 300

tntcgcnaag gattgt 316

<210> 5173

<211> 320

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560532H1

<400> 5173

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atgggctatt agaaaatgga ggacaagttc cttgagcatt tcattcttgc tcctcaatat 180

gttcttatgg gagcagctga tgcgtttgtc gaggttgcca aaatcgagtt tttctatgac 240

caagccccag aaagcatgaa gagccttggc acttcttatt caatgactac ttaggcattg 300

gattcctaag cacttttctt 320

<210> 5174

<211> 291

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560533H1

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ctctacgggt ctcacgtgc ttctccttcc cttaccaacc cttggggagc tcgtgcagga 120

gcagccacta gtcctcaagt accacaacgg ccaactcctg aaggggagca tcacgtcaa 180

tctcatctgg tacggcacct tcaccccgat ccaaggcca taatcgtgga cttcataaac 240

tcactaagca gcgcgccaaa ngcgccgctt ccacgactgc tacgtggtgg a 291

<210> 5175
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700560534H1
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 atttatcttc ctcaatgatg ttgagtcca atgtgagcta cctgaatctt atgaagctat 180
 agaaaacagc agcatagatg gcactctggg ccaatgcaat tgttccgtct ttgtttgccc 240
 gacataatac gctccaagat aagcatatgg aggaaattca acatgatatt ctctcttctc 300
 taagaaaatg atatta 316

<210> 5176
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700560535H1
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 ttgtctatgt ttcccgtgag aaaaagcctt ctcatcccca ccatttcaaa gctggggccc 120
 tcaatgtcct ttaccgtgtc tctgctgtga taagcaatgc nccatatatt ctagtgtgtg 180
 attgtgacat gttctgcaat gcccagctt cagcagcca agcattgtgt nccaccttg 240
 atcccnagan atcantttca cttgcgnntg tncaatttcc tcaganatat cacatatnag 300
 cnagnatgac at 312

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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700560536H1

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 gtgcccgtac tccggagggtg aaatgcgcaa gttggagggt tgctgtggaa gcacacaaca 180
 tctttggctt tgagaccatt cctgaagagt gcgttgaagc aacaaaggaa tacatccatg 240
 gcgaacaata tagatcagac tccaaaacag ttaaccaaca agcttacttt tatgccagga 300
 cctcgaagtc catccc 316

<210> 5178
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700560537H1

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 atgatcataa tacacagagg ccaagaggtn ttggcttcat cacttatgat tctgaagaag 180
 ctgtggatag agttcttaca aaacttttca tgaactcaat ggaaagatgg ttgaggtgaa 240
 gagggcagtt cccaaagaac tttcccctgg tcccagccga agcccattgt aggatatact 300
 aggtt 305

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 ggcttcggca agaaaaaggc tcccgcacca aagaaagcct ccaggggatc gggccgagac 180
 accgacagac cccttttggtt tccgggcgcc aaagcgcccg aatacctcga tgggagtctt 240

gtcggagata cgggttcgat ccgtttgggc tagggaagcc cgcggagtac ctgcagttcg 300
agtgatcgc tggac 315

<210> 5180
<211> 307
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700560539H1

<400> 5180

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atggtgcccg tactccggag gtgaaatgcg caagttggag gcttgcgtg gaagcacaca 120
acatctttgg ctttgagacc attcctgaag agtgcgttga agcnacaaag gaatacatcc 180
atggcgaaca atatagatca gactccaaaa cagttaacca ncaagcttac ttttatgcc 240
gagacctcga agtccatccc naggacacat ttgtgttcag tatagatgna ccgtactctc 300
taatatt 307

<210> 5181
<211> 293
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700560540H1

<400> 5181

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tctctcatcc ccaccttgg ctggcnangn cgtgaagctg ggcccatcag cnccagaagt 120
gggaaggggtg agcatgaggn agaccgtcan caagcaggtc tcctcaggan ngngcatggt 180
acggnccaga ccgngtcaag tacttggggc cattctctgg cgagcncncg tcctantaac 240
cggtgagttc ccaggcgact acggctggga catgtggttt ccgcagaccc aga 293

<210> 5182
<211> 301
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700560541H1

5182 5183 5184

<400> 5182
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atatgtgagg atgcagaaat tgtggacaaa aaacnaaact taatgaactt tgtccctact 120
cttcggtctg gagagtgggc tgatatggag atcgcacttc catggangat acacatatat 180
gcatcggaga cttggcagaa aaatttgga taacgaactt tacaaggaag ctatttcctt 240
tatggtgtat tgacggacat ggangaaga gcgctgcaca atcgtcgtga tcatctgcca 300
c 301

<210> 5183
<211> 199
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700560542H1

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ggatattatg aaggcaataa aagttggcat tgaaccaatc cccattcaga gtggnnttagg 120
aggtgcatat nattntagga acagcaangg tganaatgct gctattgtgn naccanactg 180
atgacgagcc ttatgcacc 199

<210> 5184
<211> 311
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700560543H1

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caggatgtgg gcttcttcca ctgccaatgc actcaaagtc tcttctacct ccagacctca 120
tctcttgcac cctttttctt tctccagatg cttgtcttcc gtcttggatg gacttaagta 180
tgcagattca cacgaatggg tcaagcacga aggctcagtc gccaccattg gtatcactga 240
ccatgccag gaccatcttg gagaggttgt gtatgtggag tgccagaatc aggggcacag 300
ttaccagaa g 311

<210> 5185
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 <212> nucleic acid
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 <223> Clone ID: 700560544H1

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 ccaaagacaa ggagacagga gaacttggtt ccatcaaata catagaaagg ggaaaaaaga 180
 ttgatgcgaa tgttcaaagg gagatagtta accaccgatc tttaaggcat ccaaataatta 240
 tcaggttcaa agaggtgnng agtttgntc tataactaaac tggtcntgag ttgatttttc 300
 tagatatg 308

<210> 5186
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700560547H1

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 tgctaacgag gatgctattc agaggggaac tttcttccag tcttgaattg gaggcaaagc 180
 aaacttgga agtaaataatt tctgttcgtg aagggttggt tactaatcca agtgctagaa 240
 gttgtgatgg aactgcgtgt aacattctta gcattctaat gtcttaggtg caaagagaga 300
 tgctaagttg agatga 316

<210> 5187
 <211> 315
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700560548H1

<400> 5187

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 cctcaaaaca acgagctaaa tcaggctctt gaggacaacc aagagaagaa gangagtgaa 180
 gaagatgact gnaatgacga agaatcaacc gtcacanagg tgggtggcttg atagccacac 240
 cacttctaata cgatccccctt ggctcaatcc actctctctg agttaatgag aagacaaggc 300
 atgttaaagt tattg 315

<210> 5188
 <211> 315
 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700560551H1
 <400> 5188

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 ggcttgtaca gaggcagggg tcttctacgt gaaaggacat ggttttcctg agactctcct 180
 taaagaagtt agagatgtaa cgcgcagatt ctttgaactt tcatatgaag aaaaggcgaa 240
 gatcaaaatg actccagctg ctgggttcag angttatcaa angctngaga naatatacta 300
 naggtgtacc tgaca 315

<210> 5189
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700560552H1
 <400> 5189

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 actggcacac cggggacagg aaagacaact gtgtgcactg ctctagctga agccaccag 180
 ctctgccaca tcaatgtcgg agaattagtc aaagaaaaga acttgcattga tggatgggat 240
 gatgagctga ttgttacctt cttaatgaag acttgggttg gatgacttga gnggttatgg 300

aagagggggg

309

<210> 5190

<211> 311

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560553H1

<400> 5190

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gttccctgaa aacagtgggt atgtggtttg ggtttcatct gctttgggtc ccttttgggg 120

gtttcagcaa gggtggatga aatggcttag tgggggtgata gacaacgcat tataccccgt 180

tttatntctt gactatctga agtcaggaat cccggcttta ggtggtgggt ttcctagagt 240

tggtgcaaca tgggggtctga ctatagttct cacttacttg aactataggg gtataccatt 300

gtgggatggg t 311

<210> 5191

<211> 311

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560555H1

<400> 5191

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ctactcctct tctccaaaa cgctccctct acaccacatg ntcaantnnn nnnnnnnnnn 180

nnnnnnnnnn cagccgccgg aaaacctcca cgccggatcg cgcggcctca tgattccctc 240

tcccagcgag tcacgcaaga tcgagatgta ctcccctgcc ttctacgccg cctgaccgtg 300

gtggaatcct c 311

<210> 5192

<211> 309

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560560H1

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gcattcttca agccactgcc tctacggtct tccaaggcag tgacagcatc aaaactcaat 180
ggaaggttca agtgagggcc tccatgaagg agaaagttgt gacggggctc accgcagctg 240
cattgacagc ttcaatgatg gttcctgatg tggctgagnt gccgttacac ctctctcaag 300
aacttcttg 309

<210> 5193
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<212> nucleic acid
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<223> Clone ID: 700560561H1

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tttctcccca gaaccttccc cacatacctt gcactgatgt ggctggagaa atagttgaga 240
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tatggaggt 309

<210> 5194
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<212> nucleic acid
<213> Glycine max
<223> Clone ID: 700560563H1

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gcagtggaag tggctctact gttanagcag aaaacacttg caagaacaca atttatcaaa 180
gctttctctc cctccnacgt accagaatat atctccanat gatatgcaca ctgtatggca 240

cacctatgaa ttgaggtact tccagaatgg tgataccaca actatcatat tatctgtccc 300
tacacaatan ggtggg 316

<210> 5195
<211> 310
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700560566H1

<400> 5195

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aggaccctgc tatacccgtn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnngtgatg 180
atgacgctat ggatgacttg gaggatgcga atgttaattc agtgaacggt gctgctaattg 240
ccgcggcgag tgtaaactcat gaagcggtag tggctatgct tccagaacta gcggtcactc 300
tttcttttga 310

<210> 5196
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<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700560568H1

<400> 5196

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gctgtacaga ggcagggttc ttctacgtga aaggacatgg ttttcctgag actctcctta 180
aagaagttag agatgtaacg cgcagattct ttgaactttc atatgaagaa aangcganga 240
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agtgtacct 309

<210> 5197
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<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700560569H1

<400> 5197

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ttaacgatcc tttcattacc accgattaca tgacatacat gtttaaatac gacagtgttc 180
acgggcactg gaagcatcac gatgtcaccg ttaaggntga gaagaccctt ctcttcggtg 240
acaagccagt cactgttttt ggacacagga accctgaaga gatcccatgg aagngactgg 300
agctgacatc a 311

<210> 5198

<211> 307

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560570H1

<400> 5198

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gcctcaagtc catggctggc tttcccacca ggaagaccaa caatgacatt acctccattg 180
ctagcaacgg tggaagagtg caatgcatgc aggtgtggcc accagtggc aagaagaagt 240
tnagactctt tctactgcc agacctgat gatgcacaat tggnaaaggt agagatactt 300
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<210> 5199

<211> 311

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560571H1

<400> 5199

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tattctctgg ttcatctcca ttttcttct tctctcccag ttcaaatcta cctccagctc 120
ccancactcc cttcnacgt tccaaatoga gaaacacgaa tancaccgcn gttcctgcga 180

<212> nucleic acid
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 <223> Clone ID: 700560574H1
 <400> 5202

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 ataaggcttc ttccgtgaac atcttgagca aaagtaagaa aaaaacgatg ctacttctct 180
 gaatgaatta acagagcaga tgccttcgct tcttgaaatt gatcatccat gtgctcagag 240
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 gatatt 306

<210> 5203
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700560575H1
 <400> 5203

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 aatgg 305

<210> 5204
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700560576H1
 <400> 5204

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aaggctgtac agaggcaggg ttcttctacg tgaaaggaca tggttttcct gagactctcc 180
 ttaaagaagt tagagatgta acgcgcagat tctttgaact ttcatatgaa gaaaaggcga 240
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 agt 303

<210> 5205
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700560577H1
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 ctccgttctt tccatcacgt tctctccgac acccctcac tctttcgccg ccgcacattc 240
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 <213> Glycine max
 <223> Clone ID: 700560578H1
 <400> 5206

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 ctgcttcctt aatcaactcg ttgacttgct cttcgcctgc acccactcag cactgtttcg 180
 ccttcacccg caccaccgcc accgctaccg ccacgtcact gagacaattc aacagccacc 240
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<210> 5207
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 <212> nucleic acid
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<223> Clone ID: 700560579H1

<400> 5207

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<210> 5208
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 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700560581H1

<400> 5208

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 ctcaaattccc tagtgctca gtgagttcg tcgacatcca ggaggagtat gtgaaggacg 180
 aactgaagaa tctcaggcgc gagtcctccg cgcgatggag gaggtgaagc ggatccagtc 240
 ggtgccgctc gtcataggcc agttcatgga gatgatcgac cagaacaacg gcatgttgga 300
 tccaccgcag gat 313

<210> 5209
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 <212> nucleic acid
 <213> Glycine max

<223> Clone ID: 700560582H1

<400> 5209

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 catttcttca natttatggt agacctcaga cattncttta taggtcaanc agantctctt 180
 ctggagcaca tagagtaaca atatcagctg nagtggcaga cnaaattggg atttgnnaga 240
 tttgtnaaaa caccgttctt cttonatggg ttccanntct gctnagttct ggactttcta 300

gttganca

308

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<223> Clone ID: 700560585H1

<400> 5210

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ttacattacc gagtgattga cgtcaaccgc aaaccatctc cacttcttat ctccggtctc 180
cgacgaactc tccttggnat ttgtactgca gaggtgctgc cttttacacc accagatttt 240
gcagatttta gtttttaagg ttatgctttt gggttctgcg actaatgttg cgatgatcat 300
cactgcgg 308

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<212> nucleic acid
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<223> Clone ID: 700560587H1

<400> 5211

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gcaacaaggc tctttctatt gtgcagaagg cctgcattgg atcaagcagt tgtagtgttn 180
gagtatcaag tgagacattc ggaaaccctt gtagaggagt ggcaaaaagt ttagcagttg 240
aagctacttg tgcgtagaca gacatgtttc ttcaataaca ctccaattt ctgaagatga 300
tccc 304

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<211> 305
<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700560588H1

<400> 5212

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cncctcgga cttcgtnaan gctacttttg attgcntgat gnaaacctat ggattcctga 240
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nnggc 305

<210> 5213

<211> 81

<212> nucleic acid

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gagccagtng cgccntggat c 81

<210> 5214

<211> 287

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560593H1

<400> 5214

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gttaccatgg gaaattctct tgtgatagtt tcagccacan gaagtcagtt ctctatagna 180
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<211> 302

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560594H1

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 tcaagtactt gggcccatte tctggcgagc ccccgctcta cctaaccggt gagttcccag 180
 gcgactacgg ctgggacact gctgggcttt ccgcagacnc agaaaccttc gccaaagaacc 240
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<210> 5216

<211> 309

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560601H1

<400> 5216

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 tatggcacc ctggttgagtc tgcaaaatcc gtgcttgatc tcggaggctc aatcctctgg 240
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<210> 5217

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 ctctttcaga tcaaggctct tttgatattg tcttgcataa gttatcaggg aaagagtggc 180

gccaggttct tgaggattat aggctgtcac atccggaagt tactgtttctg gatcctccag 240
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 ttc 303

<210> 5218
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 <223> Clone ID: 700560603H1
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 ccatcttttg ngcttgagga gtctgaaatc gagctcttta tttggagaat ctctaagagt 180
 ggcatccaaa tcaacactaa aggtttcaaa gacaaagaat acttcactcg tgaccagatg 240
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 cagg 304

<210> 5219
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 <212> nucleic acid
 <213> Glycine max
 <223> Clone ID: 700560604H1
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 agctgcccgg tcgaaagcag gtgnaannag tgtggatgat caatctgtnc tgggttgaac 240
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<212> nucleic acid
<213> Glycine max

<223> Clone ID: 700560605H1

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ggaggntcgg aaaatgcnac ngcnacacnt ttcnnccttc agtaatagat gaaaccagggt 240
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<223> Clone ID: 700560607H1

<400> 5221

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gggatgactt gcnnatgcca aacaaacgggt tcccctgaga catcgtgtca ctctgcaaca 240
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<210> 5222
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<212> nucleic acid
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<223> Clone ID: 700560608H1

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gcttnatntc tcaactgtgat ttcatactag gttttcggtc atcttagttg actccaagcn 180
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286

<210> 5223

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<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560610H1

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ctccaaggaa actgtgaaaa caataacctt ggcgattaat tttgtccaag cccacagtct 180

ggggctctga tagtgtcccc atttttgccc acaactgggg gaactttcat tctacttnac 240

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tgtttac 307

<210> 5224

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<223> Clone ID: 700560611H1

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ccgctctgtg ggctctctac atttcatcat tcatcgaaa aatggctctc gaggttgctg 120

ttaaggctgc tgttggtgct ccaaatgttc tcggagattg tccattttcc caaaggtcc 180

tcttaacttt agaggagaag aaaatccctt acaaactcca cctcatcgat ctcaagtagta 240

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aatg 305

<210> 5225

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<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560612H1

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 cncagagtcg gcggcctctc ttcgataaag ccaccgtttc ctctccctaa acctaaccta 240
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 tgggattatg aggccctgaa ttgagagatg gaggatctga ctaccttga aagggtgtat 240
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304

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<210> 5229
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<223> Clone ID: 700560617H1

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ttcaaangga gatagttaac caccgatctt taaggcatcc aaatattatc aggttcaaag 240
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<211> 298

<212> nucleic acid

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gtgctttatg tctggatccg ttgaaatgga aaatgcctac cttccagaaa atgaagtagg 240
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<210> 5235

<211> 298

<212> nucleic acid

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<223> Clone ID: 700560624H1

<400> 5235

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ccgcgcacgg cgtgctgtcc ctgaacacct tgccgttagg ttccgtttcc gtcccacg 298

Figure 1. The ^{13}C NMR spectra of the polyimides 1a–1f. The chemical structures of the polyimides 1a–1f are shown in the inset.

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ttgaatatga	aggttgctgt	tttttggtta	acataagggg	agagtcaggn	agacatggaa	240
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cc						302

<400> 5237

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atcccatgag	caaggattac	ggcattgtac	catctatgac	tcattttgtc	agtgtagtag	240
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<400> 5238

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 caagatccag gacaaggaag gaatcccccc ggaccagcaa cgtctcattt tgcnggaaa 180
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<213> Glycine max

<223> Clone ID: 700560634H1

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<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560635H1

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